Action: An Annotation Framework for Events in Video

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Abstract

MediaStreams is a system for annotating video content with semantic metadata. Because the meaning of a particular video segment is affected by segments that precede or follow it, MediaStreams supports video annotation only for semantics that survive possible re-sequencing. Consequently, the system represents action at the level of basic physical movements such as “raising an arm” or “smiling.” This project specifies how to extend primitive actions such as those described in MediaStreams to higher-level representations, up to the level that we commonly call *events:* noun phrases that encapsulate a connected set of actions, such as weddings, parties, and sports. Building on earlier work that describes a conceptual model for linking events to primitive actions, we show how to extend the MediaStreams metadata framework to include descriptions of event-level actions and action partonomies that show how these complex actions relate to the existing primitive actions. Our framework consists of a taxonomy, implemented as a faceted classification, and a partonomy, implemented using the ABC ontology proposed by Lagoze and Hunter. We have expressed both the taxonomy and the partonomy in the Resource Description Framework (RDF) language.

Motivation

Our project was motivated by these questions:

- How can we describe events in video in a semantically rich way?
- Can Semantic Web technologies adequately describe multimedia objects?
- How can we combine perspectives from information science (classification) and artificial intelligence (knowledge representation)?

Multi-layered Event Description

This project grew out of experiences working with students annotating video with MediaStreams.[1] Users of MediaStreams select icons to annotate video content.

1 Marc Davis, “Media Streams: An Iconic Visual Language for Video Annotation for Video Representation,” in *Readings in Human-Computer Interaction: Toward the Year 2000*, 2nd ed., ed. Ronald M. Baecker and others, 854-66 (San Francisco, CA: Morgan Kaufmann, 1995).

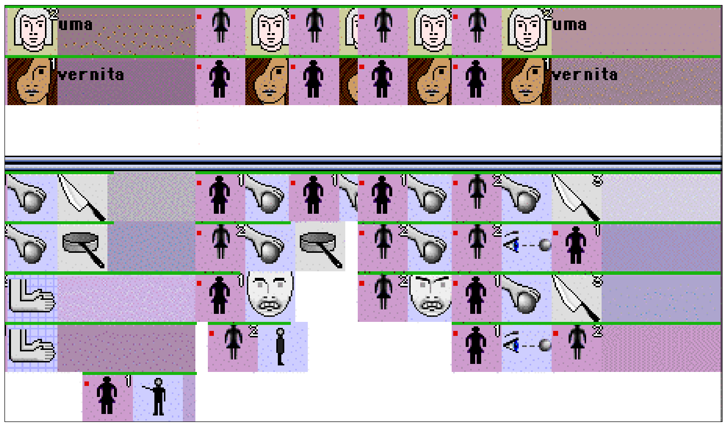
The student annotators would annotate video of a conversation using a series of icons for head nods and abstract arm movements, or video of a skateboard trick using a convoluted sequence of icons for specific motions. The annotations described the actions at a level different from what people watching the video were seeing and assimilating. Viewers see conversations and arguments, not head nods and hand gestures.

MediaStreams annotations were designed to facilitate re-sequencing of video. For example, a sequence that shows a man falling down because of a heart attack could be re-edited to show the man falling down because he was hit over the head. By annotating a sequence as “man falling” and not as “man having heart attack,” the sequence can be reused more effectively.

However, as we have just noted, limiting action descriptors to low-level movements has problems. Actions that are specific on a conceptual level may be vague at an atomic level. Fighting, for example, can take many forms, as can physical exercise (riding a bike or jogging, outside or in a gym). In addition, different higher-level actions (such as conversations and arguments) can have the same atomic actions. From the perspective of someone searching for video footage, there is a need to describe higher levels of action representation than the system currently makes possible.

Vernita fights The Bride.

To illustrate the current situation, see the above still from the movie *Kill Bill,* *Vol. 1*. It is apparent to the viewer that this is a fight scene. In MediaStreams, however, this fight scene is annotated as a series of abstract arm actions with knives and frying pans (see below). There is no sense that The Bride (Uma) and Vernita are *fighting*. How do we search for this footage?



The fight scene as annotated using MediaStreams by Angie Dilg.

This project defines a framework that incorporates both levels of description: complex human interpretation and context-free atomic action. This way, we can search for fights as well as for performing abstract arm actions with frying pans.

Semantic Web Descriptions of Multimedia

We were also motivated by a desire to learn more about Semantic Web technologies and how they could be applied to describe multimedia. The Semantic Web is a World Wide Web Consortium (W3C) research program focused on creating a web of linked machine-readable documents with explicitly defined semantics. Unlike the current Web, in which documents are intended to be human-understandable and merely displayed by machines, the Semantic Web would presumably enable much greater “automation, integration and reuse” of networked information.[2]

The core Semantic Web technology is the Resource Description Framework (RDF), a language for describing resources, where a resource is defined as any

2 Eric Miller and others, eds., “W3C Semantic Web,” World Wide Web Consortium, http://www.w3.org/2001/sw/.

document on the Web or any thing which can be uniquely identified on the Web.[3] The RDF specification consists of both a syntax for this language, and a set of extensions to this language for defining the kinds or classes of resources being described and the properties they have. These extensions are known as the RDF Vocabulary Description Language or RDF Schema.[4]

RDF and its related languages are intended to be flexible enough to describe almost anything, including multimedia content. Yet until recently these languages have not been used extensively for describing multimedia. We were interested in investigating whether RDF and RDF Schema would be useful languages for formalizing our descriptions.

Comparison of Information Science and Artificial Intelligence Approaches

Finally, we wanted to explore the approaches that different disciplines have developed to describe things. How do the classifications and thesauri of information science relate to the ontologies of artificial intelligence (AI)? Both of these disciplines attempt to create conceptual frameworks and show how linguistic expressions map to these frameworks. Their purposes have historically been different: information scientists create these frameworks to facilitate search and retrieval, while AI researchers create them to be used by reasoning algorithms. They differ in form as well; classification schedules are expressed differently from, for example, CYC concepts and assertions. But the core goals of defining concepts, relating the concepts to each other, and mapping the concepts to a standard vocabulary are similar.

Our final solution of using a faceted classification to represent the taxonomic structure of events and an ontology to represent the partonomic structure of events illustrates one way the approaches of these different disciplines can be used together.

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3 Frank Manola and Eric Miller, eds., "RDF Primer," World Wide Web Consortium, http://www.w3.org/TR/rdf-primer/.

4 Dan Brickley and R.V. Guha, eds., "RDF Vocabulary Description Language 1.0: RDF Schema," World Wide Web Consortium, http://www.w3.org/TR/rdf-schema/.

Use Cases

Accurate and complex event annotations could be used to enable the following:

- Multimedia retrieval.
- Context-enhanced video capture and automated editing.
- Collaborative annotation.

Multimedia Retrieval

As difficult as it is to extract meaning from natural language texts, it is far more difficult to extract meaning from images and video. The current state-of-the-art in computer vision and AI can only discover the low-level features of these sorts of documents, such as pixel changes from frame to frame. Thus multimedia documents are usually described with metadata tags or keywords. But this approach has many well-known problems, among them the tendency for different people to choose different keywords: *Wedding* or *nuptials*? *Fight* or *brawl*? *Soccer* or *football*? A common framework for describing events depicted in video would alleviate this problem. As noted previously, this approach also enables documents to be described and retrieved at multiple levels of detail, from the complex semantics of “shopping” to the low-level actions of putting oranges in a basket and handing money to the cashier.

Guided Video Capture and Automated Editing

Applications to support video creation could also take advantage of event descriptions. For example, a system could be built in which users selected events at a relatively broad level of description, such as “an American-style wedding.” The detailed event structure could then be used to provide a context for an intelligent video capture and editing system. For example, a system that knew it was being used to record a wedding could use domain knowledge about the focal points of a wedding to direct the user to capture certain sub-events like the bride walking down the aisle and the kiss. This added context might allow machine vision algorithms to better disambiguate features they are able to detect, making detailed automatic annotations more meaningful. Later, event descriptions could be used to automate the tedious process of editing the captured footage, through the use of video templates that incorporated different variations of the standard event structure (such as a video of a children's soccer game customized for the parents of a particular child, as opposed to a video of scoring highlights).

Collaborative annotation

Many communities, from anthropologists to doctors to journalists, would like to have systems that would allow them to collaboratively annotate and discuss shared video documents over a network. A controlled framework for describing events in video would enhance the ability of members of these groups to understand and reuse one another's annotations. This points to the importance of creating an extensible framework, as specialized groups of users are likely to need different kinds of events and will emphasize different aspects of event structure.

For example, consider the case of a production studio creating a documentary on the lives of presidential campaign staffers. The studio hires a number of independent video journalists to travel around the country shooting footage. Currently these journalists usually send their footage to the editors and producers back at the studio by express mail. They describe the footage they have shot by verbally describing it over the phone and with handwritten descriptions accompanying the tapes they send. Producers want to discuss with journalists what has been shot, perhaps in order to advise them on what else to capture, maybe even changing their travel plans. But it can be hard for the producers to understand what has been shot, as they must scan through hours of footage to find the relevant clips, if they have even received the tapes yet. Given the rapidly changing nature of news-worthy events, a system in which journalists, producers, and editors could collaborative annotate and discuss video over a network would have tremendous value and enable very nimble coverage of geographically dispersed events.

The value of such a system would be mostly lost, however, if the users were unable to converge on a common way of describing the content they were discussing. Digitized free text annotations, while somewhat useful, would not be much of an improvement over analog handwritten notes. But if the users' annotations could be mapped to a controlled formal system for describing events of interest, making them easier to organize, retrieve, and re-use, they would have far more value.

Project Goals

Our project was designed around these goals:

- Determine a data model for describing events, taxonomically and partonomically, for video annotation.
- Implement framework in RDF.
- Identify areas for future work.

Last semester, Melanie examined the basic problem of linking from the low-level physical actions portrayed in video (currently annotatable in MediaStreams software) to higher-level semantic representations that most people employ in characterizing action (a baseball game, moving house, graduating from a master's program).[5] She investigated approaches to event definition from cognitive psychology, artificial intelligence, and linguistics. As a result of this research, she hypothesized that a reasonable approach to describing events would be to combine a taxonomy and a partonomy. A taxonomy organizes categories from general to specific, using an `IS A` relationship. For example, an Aeron is a kind of chair, which is a kind of furniture. A partonomy organizes categories according to a whole-part relationship. For example, a section is part of a chapter, which is part of a book.

Melanie used these concepts to help organize the information that one would need to know to be able to characterize events: How the event relates to other similar events, what constitutes the event parts, how the parts relate over time, which roles participate in which event parts, and so on. This examination used the single example event of a birthday party to sketch out a conceptual model.

5 Melanie Feinberg, "Event Structure Model for Video Annotation," (IS246 final paper, School of Information Management & Systems, UC Berkeley, 2003).

This semester, our primary goal was to formalize that conceptual model into a standard format, and implement at least one example in that format. Our result is a proof-of-concept prototype that can then be used for further development. As such, another goal of our work has been to identify areas for further investigation.

Related Work

Event Structure

Barbara Tversky and Jeff Zacks' work on human perception of event structure has been quite influential.[6] Zacks and Tversky showed that people perceive events similarly to objects, and that people segment events in regular, predictable parts. This is a critical insight for those seeking to understand partonomic approaches to describing events, and suggests that users may find using them to come quite naturally.

Kenneth Pike was a linguist who came to the realization that human speech and human behavior cannot be easily separated and thus sought a unified theory for explaining the structure of language and behavior.[7] He divides his framework into “emic” and “etic” parts, where the former describes the units of behavioral events and how they function in relation to one another, and the latter describes a classification system for types of behavior. This distinction is quite similar to the one we have made between taxonomic structure and partonomic structure.

Faceted Classification

A faceted classification became an important structure in our system. This organizational scheme is well-known in information science. Vanda Broughton[8]

6 Jeff M. Zacks and Barbara Tversky, “Event Structure in Perception and Conception,”*Psychological Bulletin* 127, no. 1 (2001): 3-21; Jeff M. Zacks, Barbara Tversky,and Gowri Iyer, “Perceiving, Remembering, and Communicating Structure in Events,” *Journal of Experimental Psychology: General* 130, no. 1 (2001): 29-58.

7 Kenneth L. Pike, *Language in Relation to a Unified Theory of the Structure of Human Behavior (Part I)*, prelim. ed. (Glendale, CA: Summer Institute of Linguistics, 1954).

8 Vanda Broughton,“Faceted Classification as a Basis for Knowledge Organization in a Digital Environment: The Bliss Bibliographic Classification as a Model for Vocabulary Management and the Creation of Multidimensional Knowledge Structures,” *The New Review of Hypermedia and Multimedia*

suggests that the advantages of faceted classification are due to its separation of *semantic* and *syntactic* relationships. Semantic relations link general terms and specific ones, and wholes to parts. Syntactic relations link semantic terms together in combinations. These relations can themselves be described and formalized. As an example, Broughton discusses harvesting and wheat. Harvesting is neither a kind of wheat nor a part of wheat; it is an operation than can be performed on wheat. Harvesting can similarly be performed on any other crop. `Operation` can thus be one facet, and `Entity` another, and terms from each facet can be combined in a single description. Broughton also notes that this intersection of concepts can occur even in single terms: she gives the example of arthritis, which is a combination of bones and inflammation. Arthritis still encapsulates a syntactic relation between bones and inflammation, not a semantic one. The differentiation between syntactic and semantic relationships became important for us in designing our taxonomy, as we realized that we were mixing different *kinds* of concepts in a single hierarchy.

As described by Broughton, facet analysis also entails beginning a classification by collecting individual concepts and then building more general categories from the variety of terms in the collection, as opposed to beginning with broad concepts and then getting more specific. We adopted this approach in our taxonomy development, first gathering a large collection of event terms, and then deriving categories based on the examples that we had amassed.

In a typical bibliographic faceted classification, terms relate to a single subject area. Subject areas are established as people create documents in that field. In our event taxonomy, however, we were not describing a traditional subject, such as medicine or anthropology: we were describing events as portrayed in video. Instead of describing documents about baseball (including its history, rules, social effects, and so forth), for example, we were describing a depiction of a game. A parallel might have been the classification of fictional narratives; however, in bibliographic classifications, these are more often described in terms of form and genre than in terms of subject matter. For this reason, while we could use the approach of faceted classification in

7, no. 1 (2000): 67-102.

our event taxonomy, we were not able to base our taxonomy on existing bibliographic classification systems.

Ontologies

Ontologies have a long history in AI research. B.C. Vickery provides a good overview of ontologies as they relate to information science.[9] He summarizes the meaning of ontology as a vocabulary of concepts and definitions, with relationships expressed between concepts. An ontology is typically created in the context of a particular domain. Vickery notes that the goals of an ontology are quite similar to the goals of a bibliographic classification; however, the uses are different. Bibliographic classifications describe documents for the purpose of enabling access to these documents. Ontologies, on the other hand, provide representations of concepts used for reasoning by computers. To represent a plethora of relationships for this purpose, ontologies may form much more complicated structures than the typical classification. Vickery was useful to our project in providing a clear definition of ontology and in clarifying the relationship with information science principles.

Multimedia Metadata Standards

The MPEG-7 standard for describing multimedia content defines a set of "semantic entity tools" for describing narrative worlds, objects, events, concepts, states, places and times represented in media.[10] The semantics of these descriptors are tightly bound to the XML syntax of MPEG-7, meaning that they cannot be changed without departing from the MPEG-7 standard. Frank Nack has examined this problem at length and suggests that Semantic Web technologies may offer the potential for a better approach to the semantic description of media content.[11] This project is in part an attempt to prove that hypothesis.

9 Brian Campbell Vickery, "Ontologies," *Journal of Information Science* 23, no. 4 (1997): 227-86.
10 Ana B. Benitez and others, "Description of a Single Multimedia Document," in *Introduction to MPEG-7: Multimedia Content Description Interface*, ed. B.S. Manjunath, Philippe Salembier, and Thomas Sikora, 111-38 (West Sussex, UK: Wiley, 2002).
11 Frank Nack, Jacco van Ossenbruggen, and Lynda Hardman, "That Obscure Object of Desire: Multimedia Metadata on the Web (Part II)," (preprint, 2004).

Jane Hunter has taken a different approach, by attempting to express the semantics of MPEG-7 descriptors using RDF Schema.[12] Presumably an effort like this could be used to map between our framework and MPEG-7 descriptions, were that standard ever to achieve wider use.

The ABC ontology was developed to provide richer time and entity semantics for describing physical and digital items cataloged by museums and archives, including audio and video.[13] It uses the RDF Schema Language to define a set of classes for entities such as `Time`, `Place`, `Event`, `Situation`, `Action`, and `Agent` and a set of typed properties for relating instances of these classes. It also includes more specialized classes and relations for describing intellectual property concepts. We chose to use the ABC ontology for defining our partonomic framework.

Multimedia Annotation

MediaStreams is not the only system to use a shared language to support the annotation of media with semantic metadata. The Babelvision system uses an ontology to guide amateur users in annotating and querying a database of digital photographs.[14] This ontology was created by merging a number of on-line sources including WordNet, the 1911 edition of Roget's Thesaurus, and the top level of CYC.[15] Although it includes a very large number of concepts and relations among them, it does not appear to have explicit representations of event structure.

Researchers at the University of Amsterdam have investigated the use of ontologies specified in RDF Schema to allow more powerful querying and browsing of catalogs of digital images.[16] They separated their ontologies into a photo-annotation ontology, which defines among other things entities for agents, actions, and objects

12 Jane Hunter, "Adding Multimedia to the Semantic Web: Building an MPEG-7 Ontology," in *Proceedings of the First Semantic Web Working Symposium*, ed. Isabel F. Cruz and others, 261-83 (Stanford, CA: 2001).

13 Carl Lagoze and Jane Hunter, "The ABC Ontology and Model," *Journal of Digital Information* 2, no. 2 (2001), http://jodi.ecs.soton.ac.uk/Articles/v02/i02/Lagoze/.

14 Ken Haase and David Tamés, "BabelVision: Better Image Searching Through Shared Annotations," *ACM Interactions* 11, no. 2 (2004): 18-26.

15 Ken Haase, "Interlingual BRICO," *IBM Systems Journal* 39, no. 3 & 4 (2000): 589-96.

16 Guus Schreiber and others, "Ontology-Based Photo Annotation," *IEEE Intelligent Systems* 16, no. 3:66-74.

and how these relate to one another, and domain-specific ontologies which generally take the form of hierarchies. This is similar to choice we have made to separate our taxonomy from our partonomy.

In the realm of video, FilmEd allows multiple users at remote locations to simultaneously browse and annotate MPEG-2 files while discussing them via a videoconferencing system.[17] It uses the Annotea annotation vocabulary developed by the W3C and specified in RDF Schema.[18] Annotea is extremely simple and includes no content-specific descriptors; semantic annotations are done with free-text entries.

Ontolog[19] is a tool developed at the Norwegian Institute for Science and Technology (NNTU) to annotate time-based media using ontologies. Ontologies expressed in RDF can be imported into Ontolog and used to create stream-based annotations of video or audio files. The creators of Ontolog have focused on creating a usable tool rather than a metadata framework; thus it is quite complementary to our work.

The OPALES system utilizes a shared core ontology to enable collaborative sharing and annotation of the holdings of the French National Video Library.[20] The core ontology can be extended by specific user communities to represent community-specific (and possibly conflicting) "points of view." A point of view organizes annotations into "clusters of locally consistent knowledge." This is significant for two reasons. First, it provides a way for annotations to differ based on interpretative frame. Nanard and Nanard provide an example of video on the Kashmir war. Annotations created by experts on the political and historical situation of India and Pakistan will annotate the video differently from a teacher of videography techniques.

17 Ronald Schroeter, Jane Hunter, and Douglas Kosovic, "FilmEd: Collaborative Video Indexing, Annotation and Discussion Tools over Broadband Networks," in *Proceedings of the 10th International Multimedia Modelling Conference*, ed. Yi-Ping Phoebe Chen, 346-53 (Brisbane, Australia: IEEE Computer Society, 2004).

18 "Annotea Annotation Schema," World Wide Web Consortium, http://www.w3.org/2000/10/annotation-ns#.

19 Jon Heggland, "Ontolog: Temporal Annotation Using Ad Hoc Ontologies and Application Profiles," in Proceedings of the Sixth European Conference on Digital Libraries, ed. Maristella Agosti and Constantiano Thanos, 118-28 (Rome, Italy: Springer, 2002).

20 Marc Nanard and Jocelyne Nanard, "Cumulating and Sharing End Users Knowledge to Improve Video Indexing in a Video Digital Library," in *Proceedings of the First ACM/IEEE-CS Joint Conference on Digital Libraries*, ed. Edward A. Fox and Christine L. Borgman, 282-89 (Roanoke, VA: ACM Press, 2001).

Each type of expert can annotate according to a defined local vocabulary tailored to the expert's purpose. Second, by reducing the user set to a manageable number, point of view enables ontology development and annotation to be shared among the community. In the OPALES system, users can switch between appropriate points of view as necessary, both when annotating and when querying.

OPALES does not rely on Semantic Web technologies, but it illustrates one way ontology creation and maintenance might be made to scale to the size of the Web, a key goal of the Semantic Web. The ability to scale is crucial for a framework of the type we will describe to succeed. The structures that we discuss in this paper provide powerful description capabilities, but they are complex—if not to use, then certainly to create. If the burden of this type of work can be spread across a community, then it will be easier to create the annotation vocabulary. Our work will also be more useful if it enables the definition of event vocabularies specialized for particular cultures and communities. OPALES shows how these multiple vocabularies can be used concurrently without conflict.

Taxonomic Framework

We use a taxonomy to define the IS A part of the event description (the paradigmatic aspect of the definition), from more general to more specific.

To develop our taxonomy, we followed a typical approach to thesaurus development and gathered event terms from a variety of sources, including:

- The Outline of Cultural Materials anthropological thesaurus.[21]
- The Art and Architecture Thesaurus.[22]
- Daily life, for example, watching TV and noting events.

Initially, we thought that we would have a single event hierarchy, which would list activities from general to specific. For example, we had a category of

21 George P. Murdock and others, *Outline of Cultural Materials*, Human Relations Area Files, http://www.yale.edu/hraf/Ocm_xml/newOcm.xml.
22 *Art and Architecture Thesaurus*, Getty Research Institute, http://www.getty.edu/research/tools/vocabulary/aat/.

`Performance` with subcategories such as `Music` and `Dance`. We began to realize the difficulties with this approach when thinking about how certain terms could be taken off in very different directions. In addition to "performing" the violin, one could also practice it, for example. It was definitely wrong to have `Performance` and `Practice` categories with the same subcategories. `Practice` seemed especially problematic, since almost anything can be practiced.

We began to think that we needed to separate our single hierarchy into multiple orthogonal categories, or facets. This feeling was validated through our in-class design session, where we asked everyone to think of examples of events, and then brainstormed possible superclasses for those events as a group. As one example, "the Super Bowl" was described as a party, a competition, a sporting event, a tradition, and so on. The variety of information that tended to be encapsulated in the brainstormed superclasses confirmed our decision to separate out parts of the event definition using facets.

Event Definition

As we began the project, we knew that we needed a more precise definition of *event*. Initially we thought that we could create a taxonomy and then use the collected terms to infer an event definition. This type of approach is similar to how we were approaching taxonomy construction in general.

However, the wide range of terms that we were coming up with necessitated that we limit the definition in order to keep the scope manageable and not document the world. Our in-class design session also made this clear. One student's sample event, for example, was "The Grateful Dead playing Dark Star for the first time in ten years." We knew that we could accommodate a Grateful Dead concert into our taxonomy. But a single song was a different scale, and also just seemed qualitatively different. Another example was "lying." Lying is an important concept, but a lie doesn't seem like an event. On the other hand, how could we unambiguously determine what was an event, and what wasn't?

Philosophical, logical concepts of events don't seem to differentiate between events and actions, or they just define actions as having explicit agents (a candle going out on its own isn't an action).[23] These kinds of definitions were still too broad for our purposes: a lie, a conversation, a song, and a concert, are all at the same level. We eventually settled upon a pragmatic heuristic inspired by the sociologist Erving Goffman. Goffman characterizes a "social occasion" as an event "bounded in regard to place and time and typically facilitated by fixed equipment," which provides a "structuring social context" and has a recognized pattern of conduct.[24] This definition fits a night at the opera, but not a single aria. Although we still do not have a formal test for determining whether something is an event by this definition, it does seem to capture our intuitive understanding of the concept.

Taxonomy Facet Structure

Our taxonomy includes these facets:

- `Time` (with sub-facets `Boundaries`, `Ordering`, `Recurrence`, and `Duration`).
- `Physical Effect` (with sub-facets `Product` and `State Change`).
- `Focus` (with sub-facets `Time`, `Space`, and `Character`).
- `Organization`.
- `Style`.
- `Activity`.
- `Purpose`.

The following table describes each facet and sub-facet in more detail.

23 For example, in Zacks and Tversky 2001, they describe how "events" are perceived by observers, but do not require an intentional actor; a candle being blown out by the wind can be an event. In contrast, actions, while also events, require an intentional actor. A person extinguishing a candle is an action, while the wind blowing out the candle is not. It's a workable simplification to think of "event," as used by Zacks and Tversky, as "anything that happens." Zacks and Tversky are psychologists and not philosophers, but they drew on philosophic definitions in their work.

24 Erving Goffman, *Behavior in Public Places: Notes on the Social Organization of Gatherings*, (New York, NY: Free Press, 1963), 18.

Facet	***Sub-facet***	***Description***
`Time`	`Boundaries`	This sub-facet describes whether the event is clearly bounded or not. For example, a conversation may slowly shift to an argument, so that it is unclear where one ends and the other begins. Yet another argument may have strict boundaries. Or most parties can be said to end when the guests leave. However, sometimes guests stay after the “party” has ended, to clean up, hang out, or whatever.
`Time`	`Ordering`	This sub-facet describes the strictness with which activities within the event are arranged. For example, a road trip is loosely structured, while a tour is highly structured, and yet both could be described as vacations using motor vehicles. Ordering can be tricky, however, because it can vary depending on the level of the partonomic structure. For example, at the activity level, a rock concert is reasonably strictly ordered: the opening act plays, and then the headliner, and then the lights go up. But the order of songs may follow a set list (be strictly ordered) or may be more improvisational. In contrast, a symphony concert is always more strictly ordered; the music almost never varies from the program.
`Time`	`Recurrence`	This describes whether the event is typically part of a series (such as a baseball game in the context of a season), or is conceptually unique (such as a wedding). There could be ambiguity here regarding point of view. For example, an airplane flight is part of a series for a flight attendant, but not for a typical traveler (although it could be for someone who takes many business trips). This description should follow the event as viewed by the observer.
`Time`	`Duration`	This sub-facet defines whether and how an event’s temporal extent can grow or shrink. For example, a catnap is a short period of sleep that needs to be distinguished from an entire night’s rest. Or a quick snack differs in duration from a lengthy banquet.

Facet	***Sub-facet***	***Description***
Physical Effect		Physical effect defines elements that are produced, which in turn define the event. The partonomic elements are affected by the products. For example, cooking pancakes differs from cooking spaghetti. Surgery can be said to differ by the body part being worked on (brain surgery as different from heart surgery). Physical effects may be state changes (such as harvesting corn; the corn removed from the stalk, and so its state changes, but the corn is not produced) or products (such as succotash, which is qualitatively different than the corn and lima beans used to produce it).
Physical Effect	State Change	A state change, for example, can be a way to distinguish “getting dressed” from “trying on clothes.” Getting dressed involves a final state change. Trying on clothes completes without a state change.
Physical Effect	Product	Our use of the term *product* does not mean merely an event that includes objects. A key determinant is that the product changes partonomic structure. Constructing a cathedral involves a different chain of events than building a hut. While a birthday party often involves presents, the presents do not radically affect the partonomic structure, nor are the presents created through the party activities.
Organization	N/A	This facet describes the differences between events that have imposed structure and those that are more improvisational. For example, this facet seeks to describe the difference between an NBA game (highly structured: rules are enforced by referees, the game is strictly timed, only official participants are allowed to play, someone always wins, and so forth) and a pickup basketball game (players are not set and may change unpredictably as the game proceeds, there aren’t any referees, time isn’t kept, score may not be kept, there may not be a winner). A similar range would encompass the difference between symphony concert and drum circle.

Facet	*Sub-facet*	*Description*
Focus		This facet differentiates between events with identifiable focal points and those without. A focal point describes an element that, if not viewed, would compromise the sense of having seen the event. For example, video of a typical American wedding in which the groom did not kiss the bride would seem incomplete, almost as if the wedding had not happened. In contrast, video of an evening of ballroom dancing would not incorporate such focal points. One way to think about this concept is to consider a test whereby 10-second samples of an event were collected every five minutes. Would video collected in this manner provide an adequate summary of the event? Or would specific events need to be captured? Focal points can be described according to multiple axes: time, space, and characters.
Focus	Time	A temporal focal point indicates that a specific sequence is crucial to include in video footage of the event. This can be used to differentiate between special instances of events. For example, a high-school dance might not have a temporal focal point in general, but the homecoming dance might have a point in which the king and queen are crowned.
Focus	Space	A spatial focal point indicates that attention should be directed toward a particular location. For example, at a concert, attention should be primarily directed toward the stage, and not the theater seats or the lobby. The concert, however, may not have a temporal focal point.
Focus	Character	A character focal point specifies a particular participant to whom attention should be directed. Continuing the concert example, in addition to the spatial focal point of the stage, an additional character focal point might be required for attention the soloist in a violin concerto. In contrast, for portions of the concert without a soloist, attention would be directed toward the stage only.

Facet	*Sub-facet*	*Description*
`Style`	(Sub-facets include `Culture`, `Genre`, and `Religion`.)	This facet indicates manner. For example, an American wedding is structured differently from a Japanese wedding, and a Jewish religious service is different from a Hindu religious service.
`Activity`	(There are many activity sub-facets.)	The activity denotes a generic expression of what actually happens. Expressing the activity generically allows for subtleties to be conveyed using the `Purpose` facet. For example, for the activity of playing music, context could further define the event as a performance, practice, audition, and so on. Travel, a generic activity, can be clarified through the `Purpose` facet as for leisure (a vacation) or for work (a business trip).
`Purpose`		This facet adds a more complex semantic layer onto the generic description enabled by the `Activity` facet. The `Purpose` facet differentiates baking bread (with no additional purpose) from a bake-off (baking bread for the purpose of competition), for example. The purpose should reflect the inferable purpose, as opposed to actual (the purpose as can be discerned from seeing video). Video of an actual rehearsal might be annotated as a performance if it appears so (no shots of the lack of audience, but just of the performers, and so on).

Rejected Facets

We considered but rejected several concepts as facet candidates. Our taxonomy does not include facets for:

- `Space`.
- `Activity Optionality` (a sub-facet of `Time`).
- `Emotion`.
- `Interpretation`.
- `Instrument`.

The following table describes these rejected facets.

Facet	*Sub-facet*	*Description*
`Space`	N/A	We thought about using a `Space` facet to distinguish between events that move between locations. However, upon further reflection we decided that this information should be expressed through the current `Location` facet in MediaStreams. The `Location` facet can currently describe moving from one location to another. For example, video can be annotated with the location Paris, city street, then change to airport, airplane, airport again, and finally London. The `Location` facet cannot describe moving between similar location types. For example, a parade might begin on a city street and end on a different city street. Currently there is no way to express this. This distinction should be conveyed through the overall `Location` facet, not through a specific event-related space construct.
`Time`	`Activity Optionality`	This sub-facet was suggested as a way to indicate whether individual activities within an event could be removed or not. While whether an activity is optional or not affects the temporal aspect of the event partonomic structure, it's unclear whether this affects the event definition itself. For example, a birthday party might omit present opening and cake, but still be a valid birthday party. The `Activity Optionality` sub-facet would seem to be necessary only in cases where tinkering (or not tinkering) with included activities would change an otherwise identical event definition. For example, if there were two variants of birthday party, one which didn't allow activities to be removed, and one which did, then this sub-facet would be necessary.

Facet	Sub-facet	Description
Emotion		We considered a facet that describes how the event affects participants in abstract ways. For example, in our in-class design session, the event “moving house” was given superclasses of “physically strenuous event” and “stressful event.” These descriptions are not inherent in the moving house event definition: a move is not physically strenuous if movers are hired (except for the movers), and it isn’t stressful if it’s been well-planned. These kinds of descriptions are useful for differentiating instances, but are quite subjective, so we decided not to include them. This could be something to reconsider for future work.
Interpretation		An interpretive facet would be able to assign descriptors such as “miracle” to Maradona’s Hand of God soccer goal (another example from the in-class design session). An Argentine’s miracle is a Brit’s catastrophe, however, so this gets us back into the morass of subjectivity. There is no doubt that people categorize in this manner, however, and so this might be another area to consider in the future.
Instrument		The use of particular instruments (tools) is one way that related events vary. For example, playing the violin is different from playing the flute. These sorts of distinctions can be expressed through the partonomic structure, since we can describe the structure of an Artistic Expression, Music event as involving a Musical Instrument type and then derive various permutations of that event by varying the specific instantiation of the Musical Instrument.

Taxonomy Examples

In this section, we describe some examples of how events would be described using our taxonomy. Note that the actual taxonomy values are examples; they are intended to illustrate the facet structure, not actual values.

Example 1: Grateful Dead Concert

A suggestion from our in-class design session was "the Grateful Dead playing Dark Star for the first time in five years." With our established working definition of event, this description was too low-level.

The following table shows how a Grateful Dead concert would be described in our taxonomy. Note that the `Physical Effect` facet is omitted, as there are no physical effects.

Facet	***Sub-facet***	***Value***
`Time`	`Boundaries`	Clear (a beginning and an end)
`Time`	`Ordering`	Strict (the opening act plays, and then the headliner, and not the other way around)
`Time`	`Recurrence`	Series (there can be many such concerts)
`Time`	`Duration`	Long
`Organization`	N/A	Moderately structured (although there might be improvisational aspects of the concert, only band members are allowed on stage, for example
`Focus`	`Time`	On the songs
`Focus`	`Space`	On the stage
`Focus`	`Character`	On the performers
`Style`	`Genre`	Rock, Jam Band
`Activity`		Artistic Expression, Music
`Purpose`		Performance

One superclass suggested by the class for this event was "psychedelic experience." We decided that this descriptor defined a separate event that might be happening concurrently with the concert, and might be caused by the concert, but was not part of the concert. Two descriptors from the same facet can concurrently occupy the same stream within MediaStreams.

Another suggested superclass was “something that hasn’t been done in a while,” to get at the initial description of “for the first time in five years.” In the context of video, while this knowledge might be in the head of a concert-goer, it doesn’t actually affect the structure of the concert itself; it isn’t easily observable. So it doesn’t seem like this should be part of the definition.

“Party” was another suggested superclass. This one is a little complex to determine. While a Grateful Dead concert may incorporate a party-type atmosphere, overall, we feel that parties differ from concerts: the primary focus of a concert is the music performance (otherwise it wouldn’t be a concert), while the focus of a party is primarily on social interaction (parties may or may not include music). However, there are certainly border cases, such as a rave, which seems like a party, except that some people go for the music. Assigning multiple activities to a single event description could be messy, and is certainly problematic for inter-indexer control. But we can envision situations where multiple purposes seem necessary (for example, a battle of the bands is both a performance and a competition (there is an audience), while a piano competition, while the participant does perform for judges, is really more a competition alone).

Example 2: Comparison of Similar Activities

This example shows how similar activities are described differently in our taxonomy. The following table shows three events that all have to do with playing the drums: an African drumming concert, a drum circle, and a person practicing the drums.

Facet	***African Drumming Concert***	***Drum Circle***	***Someone Practicing Drums***
`Time`	`Boundaries`: Clear `Order`: Strict `Recurrence`: Series `Duration`: Average	`Boundaries`: Fuzzy `Order`: Loose `Recurrence`: Series `Duration`: Long	`Boundaries`: Fuzzy `Order`: Loose `Recurrence`: Series `Duration`: Short

`Organization`	Highly Structured	Unstructured	Loosely Structured
`Focus`	`Location`: Stage `Character`: Performers `Time`: Pieces	`Character`: Drummers	`Time`: Playing
`Style`	African	None	Jazz
`Activity`	Artistic Expression, Music	Artistic Expression, Music	Artistic Expression, Music
`Purpose`	Performance	Performance	Practice

Partonomic Framework

The partonomic aspect of our framework describes the structure of individual events from the taxonomy, including sub-events, actions, agents, and objects, and how they relate to one another. Thus the partonomy is closer to the approach normally used for knowledge representation in AI. The partonomy also links the events to concepts from existing MediaStreams facets describing people, actions, and objects.

We chose to use the ABC ontology for our partonomy. To illustrate how to specify a partonomic framework using the ABC ontology we used the example of a birthday party, an event commonly depicted in home videos. Working from the rough model which Melanie produced last semester, we formally expressed the structure of the birthday party as an RDF graph. An XML serialization of this graph is shown in Appendix B. We then linked this graph to both an RDF representation of our taxonomy (see Appendix A) and an RDF representation of the existing MediaStreams framework (produced by Joost Geurts). The results, including all three linked graphs, can be browsed at http://dream.sims.berkeley.edu:8080/ryanshaw/visualize.

Some of the modeling choices we made are non-intuitive and require further explanation. First is the distinction made between `Event` and `Situation`. As defined in the ABC ontology, a `Situation` is "a context for making time-dependent or *existential* assertions about `Actualities.`"[25] There is a single example of this in our example partonomy: we assert that the `inPlace` property of the "guests" is the same as the `inPlace` property of the "birthday party" in the context of the `Situation` following "arrival" at the party. A `Situation` is bounded by the `Events` that precede and follow it. Thus they are useful not only for expressing contextually dependent properties of people and things, but for inducing an ordering among `Events`. We use `Situations` primarily for this latter purpose. For example, we use two `Situations` and appropriate precedes and follows properties to express the fact that "arrivals" occur before "socializing," "maintenance," and "cake ceremony," and that all of these occur before "departure." See the box labeled "birthday party" in the diagram in Appendix C for a visualization of this.

Since we use `Situations` primarily for ordering `Events`, we have chosen to model them as *blank nodes* in our RDF graph.[26] Blank nodes are not given universal identifiers since it is assumed that they will not be referred to from outside of the graph in which they are defined. Using a blank node in a statement is the same as using an existential quantifier, saying that "There exists something such that..." without explicitly naming it. We chose to model some entities in this way to reflect that while they are key parts of the event structure, they are not things we usually name.

Another possibly confusing aspect of our partonomy is the way we have chosen to link it to our taxonomy and the existing MediaStreams hierarchy. Entities in the taxonomy are abstract concepts. Entities in the MediaStreams hierarchy are "cascading icon dialog items" (CIDI), the semantics of which are somewhat ill-defined. We link to both of these entities via the `rdf:about` property, in essence saying that the statements in our partonomy are statements about the entities in the taxonomy and the CIDI hierarchy. While this is a practical solution to the problem of how to link the three frameworks, it glosses over some tough philosophical problems regarding the

25 Lagoze and Hunter, "ABC Ontology."
26 Graham Klyne and Jeremy J. Carroll, eds., "Resource Description Framework (RDF): Concepts and Abstract Syntax," World Wide Web Consortium, http://www.w3.org/TR/rdf-concepts/#dfn-blank-node.

distinctions between concepts, classes and instances. These are open questions in the Semantic Web community, and the current wisdom is to choose a solution that supports your application rather than obsessing over philosophical details. Our solution should be viewed in this light and will almost certainly require revisiting in future work.

The decisions discussed thus far were relatively straightforward. As we gained familiarity with the ABC ontology, however, things got more complicated. Our work was made more difficult by problems with formal definitions in the model. There were a number of inconsistencies between the model described in the paper, the diagrams used to illustrate the model, the RDF documents expressing the model and the example RDF annotations that used the model. Furthermore, the document specifying the ABC ontology does not even seem to be valid RDF: there are a number of syntactical errors that cause validation tools to choke. Even more egregiously, the authors seem to have misunderstood the implications of assigning multiple domain properties to an RDF predicate. For example, the `hasPresence` property is defined as having two domains: `Event` and `Action`. Judging from the written explanations of these classes, it seems that the authors intended this to mean that subjects of statements using the `hasPresence` property could be instances of either the `Event` class or the `Action` class. Yet according to the RDF Schema specification, specifying multiple domains for a property means that subjects of statements using that property must instantiate *all* of the classes specified as domains. These kinds of semantic confusions made the ABC ontology somewhat difficult to work with.

Besides sloppy definitions, we encountered two particularly significant conceptual difficulties in using the ABC model. The first problem was how to express cardinality. For example, a birthday party has multiple guest arrivals and may or may not have a cake ceremony. There are no provisions in the ABC model for specifying that an event has an optional sub-event, or that certain sub-events may occur multiple times. To capture these semantics, it would be nice to extend the model using the property restrictions on cardinality available in some richer RDF-based languages, which enable one to specify the minimum and maximum number of values a class may have for a specific property. However, the event-sub-event relationship is expressed in the ABC model via the `isSubEventOf` property, not through a `hasSubEvent` property. Even if there were a `hasSubEvent` property, using these restrictions to specify cardinality would require that we model our events as as subclasses rather than instances of the ABC `Event` class.

The issue of whether to model events as classes or instances was our second major conceptual problem. The ABC model defines classes for events and assumes that descriptions of events define instances of those classes. Yet since we are interested in defining *kinds* of events rather than specific events, it would seem to make sense for us to subclass rather than instantiate the ABC classes. For example, we could define a class of "pouring refreshment" events, instances of which could include "pouring beer," "pouring milk," and "pouring wine." Unfortunately, the ABC model makes this approach rather complex.

The problem with modeling events as classes lies in the way that ABC ontology specifies its properties. For example, the `isSubEventOf` is defined as having its domain and range restricted to the `Event` class. This means that a statement using the `isSubEventOf` predicate must have a subject and an object that are instances of the `Event` class. Thus if we chose to to make our "birthday party" and "socializing" events subclasses of `Event` rather than instances of it, we could no longer use the `isSubEventOf` property to relate them. Presumably we could use the capabilities of a higher-order language such as OWL to specify constraints on our "birthday party" class, specifying that some values of its "has sub-event" property must come from the the union of the "arrival," socializing," etc. classes. This approach is not only far more complex, it also requires us to specify these kinds of constraints for every class we define. For these reasons, we opted to model our events as instances.

It should be noted that there is currently no consensus in the Semantic Web community about when to use classes and when to use instances, although there have been attempts to clarify some of the issues.[27] Fortunately, the existing MediaStreams

27 Natasha Noy, "Using Classes As Property Values," (draft note, Semantic Web Best Practices Working

class hierarchy still allows us to achieve the desired functionality. We can say, for example, that the "pouring refreshment" event involves a "liquid food storage container," which is a variable that can be instantiated by "beer bottle," "milk carton," or "wine decanter," thus defining a whole space of possible pouring events rather than a single specific pouring event.

There is still a problem, however. In some cases the possible realizations of an event differ not only in the specific objects or actions they contain but also have different structures. For example, the abstract event "obtaining refreshments" may be realized either by "portioning and taking" a solid food or "opening and pouring" a liquid food. These are two possible realizations of "obtaining refreshments," not necessarily two events that occur while "obtaining refreshments." In other words, it seems to be an "is-a" relationship rather than a "part-of" relationship. Currently, however, our partonomy does not make this distinction and uses `isSubEventOf` for both cases.

Validation

Our primary focus in this effort has been to produce a structure that then could be tested. We did not have time in this iteration to test the proof-of-concept prototype. However, we were able to incorporate a certain amount of validation into the design process itself, without formal testing. For example, instead of basing our taxonomy on concepts that we generated ourselves, we collected terms primarily through established sources, such as existing thesauri, the terms of which have already been validated. Although the concepts that we borrowed were validated for different specific purposes, they were serving a common function as preferred terms in a controlled vocabulary. In addition, we used the in-class design session and crit to our advantage in obtaining informal feedback and soliciting different types of examples. The in-class design session, for example, validated our decision to use facets in the taxonomy and provided us with a set of examples to ensure that we covered in our design. Through the crit, we obtained additional feedback on our proposed facet

Group), http://lists.w3.org/Archives/Public/www-archive/2004May/att-0019/ClassesAsValues-v3.html (accessed May 11, 2004).

structure.

Future Work

We see many possibilities for future research. Some topics include:

- Better explication of the relation between ontological "classes" and classification "concepts," including the class/instance problem.
- Testing and validation of the faceted classification and event ontology.
- Analyze additional semantic levels: affective and interpretive descriptors, for example.

As noted earlier, the issue of how to use use hierarchies of concepts in conjunction with ontologies is a hot topic in the Semantic Web community. Further work is needed to investigate the logical consequences of the various choices that can be made when creating frameworks that combine aspects of classification and knowledge representation. This will be especially critical for building systems that use frameworks such as ours to enable intelligent video capture and editing, since those systems will presumably need to be able to reason on the basis of the relations in these frameworks.

A primary means of testing and expanding our framework will be to use it for annotating video. Ontolog should provide us with platform for actually using the basic framework to annotate video. Ideally we would begin with video of birthday parties, in order to test our existing partonomy. Using Ontolog to annotate random video from the Web should also help and refine the taxonomy (certainly it should help us to fill out the part below `concept_0222`). This would also allow us to test the framework with non-expert users. One interesting suggestion we have received for validating the framework was to have one set of users annotate video, and another set try to draw cartoons depicting the events they think the annotations are describing. This should give us an idea of whether our framework is successfully enabling rich, understandable descriptions.

At a later stage, after the initial framework is on more solid footing, it would be interesting to consider the more difficult and subjective semantic levels of affective and interpretive descriptors, as discussed earlier in the section on rejected facets. While emotions are not a typical search device, people do seem to use these kinds of descriptions to organize events, as shown in our in-class design session (where moving house was classified as "stressful," for example). The International Children's Digital Library (ICDL)created by the human-computer interaction lab at the University of Maryland includes the ability to search for children's books according to their dominant emotions;[28] the impetus for this feature was discovered through working with children to discover how they picked books to read.[29] The ICDL only indexes four emotions: happy, sad, scared, and funny. Limiting the vocabulary severely, as the ICDL does, may be one way of enabling this kind of feature but still retaining consistency of indexing. In any case, it would be interesting to explore the possibilities of this type of annotation, and to identify the contexts in which such descriptors might be most useful (home video collections, for example, rather than stock video footage).

28 See http://www.icdlbooks.org:8080/servlet/SearchCategory?id=5 for an example.
29 Allison Druin (principal investigator of the ICDL), personal communication, 2004.

Appendix A: Taxonomy Expressed in RDF/XML

In the taxonomy shown here, only the Activity facet is well developed. The other facets have placeholder values. This is because we changed our taxonomy strategy fairly late in the semester. We decided that it was best to focus our efforts on solidifying and describing the facets, rather than enumerating values. The Activity facet shows how the other facets might be developed further, although it is likely that most of the additional facets will have far fewer values than the activity facet.

We took advantage of the Simple Knowledge Organization System (SKOS) Core, an RDF vocabulary developed for thesauri, to express our taxonomy.[30] The taxonomy was initially authored as a Microsoft Excel spreadsheet, then converted to RDF/XML using a Java program we developed.

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE rdf:RDF [
<!ENTITY rdf "http://www.w3.org/1999/02/22-rdf-syntax-ns#">
<!ENTITY rdfs "http://www.w3.org/2000/01/rdf-schema#">
<!ENTITY skos "http://www.w3.org/2004/02/skos/core#">
<!ENTITY dc "http://purl.org/dc/elements/1.1/">
<!ENTITY ms "http://garage.sims.berkeley.edu/MediaStreams">
]>
<rdf:RDF
 xmlns:rdf="&rdf;"
 xmlns:rdfs="&rdfs;"
 xmlns:skos="&skos;"
 xmlns:dc="&dc;"
 xml:base="&ms;/event-taxonomy">

  <skos:ConceptScheme rdf:about="&ms;/event-taxonomy">
    <dc:title>MediaStreams Event Taxonomy</dc:title>
    <dc:description>
      A faceted classification scheme for events representable in
video.
    </dc:description>
    <dc:creator>Melanie Feinberg</dc:creator>
    <dc:creator>Ryan Shaw</dc:creator>
  </skos:ConceptScheme>


  <!-- Time -->
```

30 Alistair J. Miles, Nikki Rogers, and Dave Beckett, “SKOS-Core 1.0 Guide,” SWAD-Europe, http://www.w3.org/2001/sw/Europe/reports/thes/1.0/guide/.

```
<skos:TopConcept rdf:ID="concept_0000">
  <rdfs:label>Time</rdfs:label>
  <skos:prefLabel>Time</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0001"/>
  <skos:narrower rdf:resource="#concept_0007"/>
  <skos:narrower rdf:resource="#concept_0010"/>
  <skos:narrower rdf:resource="#concept_0004"/>
</skos:TopConcept>

<skos:Concept rdf:ID="concept_0001">
  <rdfs:label>Boundaries</rdfs:label>
  <skos:prefLabel>Boundaries</skos:prefLabel>
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  <skos:narrower rdf:resource="#concept_0003"/>
  <skos:narrower rdf:resource="#concept_0002"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0003">
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  <skos:prefLabel>Fuzzy</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0002">
  <rdfs:label>Clear</rdfs:label>
  <skos:prefLabel>Clear</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0007">
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  <skos:prefLabel>Recurrence</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0008"/>
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</skos:Concept>

<skos:Concept rdf:ID="concept_0008">
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  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

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  <skos:prefLabel>Single</skos:prefLabel>
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</skos:Concept>

<skos:Concept rdf:ID="concept_0010">
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```

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  <skos:narrower rdf:resource="#concept_0011"/>
  <skos:narrower rdf:resource="#concept_0015"/>
  <skos:narrower rdf:resource="#concept_0013"/>
  <skos:narrower rdf:resource="#concept_0014"/>
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</skos:Concept>

<skos:Concept rdf:ID="concept_0011">
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  <skos:prefLabel>Very Long</skos:prefLabel>
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<skos:Concept rdf:ID="concept_0013">
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</skos:Concept>

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  <skos:prefLabel>Ordering</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0005"/>
  <skos:narrower rdf:resource="#concept_0006"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0005">
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  <skos:prefLabel>Strict</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>
```

```
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  <skos:prefLabel>Loose</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>


<!-- Physical Effect -->

<skos:TopConcept rdf:ID="concept_0016">
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  <skos:prefLabel>Physical Effect</skos:prefLabel>
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  <skos:narrower rdf:resource="#concept_0018"/>
  <skos:narrower rdf:resource="#concept_0017"/>
</skos:TopConcept>

<skos:Concept rdf:ID="concept_0018">
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</skos:Concept>

<skos:Concept rdf:ID="concept_0017">
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  <skos:prefLabel>State Change</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>


<!-- Organization -->

<skos:TopConcept rdf:ID="concept_0019">
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  <skos:prefLabel>Organization</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0022"/>
  <skos:narrower rdf:resource="#concept_0023"/>
  <skos:narrower rdf:resource="#concept_0021"/>
  <skos:narrower rdf:resource="#concept_0020"/>
</skos:TopConcept>

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<skos:Concept rdf:ID="concept_0023">
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```

```
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</skos:Concept>

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  <skos:prefLabel>Moderately Structured</skos:prefLabel>
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</skos:Concept>


<!-- Focal Point -->

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  <skos:prefLabel>Focal Point</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0026"/>
  <skos:narrower rdf:resource="#concept_0027"/>
  <skos:narrower rdf:resource="#concept_0025"/>
</skos:TopConcept>

<skos:Concept rdf:ID="concept_0026">
  <rdfs:label>Spatial</rdfs:label>
  <skos:prefLabel>Spatial</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0027">
  <rdfs:label>Character</rdfs:label>
  <skos:prefLabel>Character</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0025">
  <rdfs:label>Temporal</rdfs:label>
  <skos:prefLabel>Temporal</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>


<!-- Style -->

<skos:TopConcept rdf:ID="concept_0028">
  <rdfs:label>Style</rdfs:label>
  <skos:prefLabel>Style</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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  <skos:narrower rdf:resource="#concept_0029"/>
  <skos:narrower rdf:resource="#concept_0030"/>
  <skos:narrower rdf:resource="#concept_0031"/>
</skos:TopConcept>

<skos:Concept rdf:ID="concept_0029">
  <rdfs:label>Genre</rdfs:label>
  <skos:prefLabel>Genre</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0030">
  <rdfs:label>Culture</rdfs:label>
  <skos:prefLabel>Culture</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0031">
  <rdfs:label>Movement</rdfs:label>
  <skos:prefLabel>Movement</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>



<!-- Activity -->

<skos:TopConcept rdf:ID="concept_0032">
  <rdfs:label>Activity</rdfs:label>
  <skos:prefLabel>Activity</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0393"/>
  <skos:narrower rdf:resource="#concept_0062"/>
  <skos:narrower rdf:resource="#concept_0350"/>
  <skos:narrower rdf:resource="#concept_0168"/>
  <skos:narrower rdf:resource="#concept_0258"/>
  <skos:narrower rdf:resource="#concept_0214"/>
  <skos:narrower rdf:resource="#concept_0292"/>
  <skos:narrower rdf:resource="#concept_0040"/>
  <skos:narrower rdf:resource="#concept_0353"/>
  <skos:narrower rdf:resource="#concept_0072"/>
  <skos:narrower rdf:resource="#concept_0041"/>
  <skos:narrower rdf:resource="#concept_0189"/>
  <skos:narrower rdf:resource="#concept_0336"/>
  <skos:narrower rdf:resource="#concept_0033"/>
  <skos:narrower rdf:resource="#concept_0181"/>
</skos:TopConcept>

<skos:Concept rdf:ID="concept_0393">
  <rdfs:label>Natural</rdfs:label>
  <skos:prefLabel>Natural</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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    <skos:narrower rdf:resource="#concept_0400"/>
    <skos:narrower rdf:resource="#concept_0399"/>
    <skos:narrower rdf:resource="#concept_0394"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0400">
    <rdfs:label>Eclipse</rdfs:label>
    <skos:prefLabel>Eclipse</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0399">
    <rdfs:label>Planetary Events</rdfs:label>
    <skos:prefLabel>Planetary Events</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0394">
    <rdfs:label>Cataclysms</rdfs:label>
    <skos:prefLabel>Cataclysms</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
    <skos:narrower rdf:resource="#concept_0397"/>
    <skos:narrower rdf:resource="#concept_0398"/>
    <skos:narrower rdf:resource="#concept_0395"/>
    <skos:narrower rdf:resource="#concept_0396"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0397">
    <rdfs:label>Flood</rdfs:label>
    <skos:prefLabel>Flood</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0398">
    <rdfs:label>Storm</rdfs:label>
    <skos:prefLabel>Storm</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0395">
    <rdfs:label>Earthquake</rdfs:label>
    <skos:prefLabel>Earthquake</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0396">
    <rdfs:label>Volcanic Eruption</rdfs:label>
    <skos:prefLabel>Volcanic Eruption</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0062">
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    <rdfs:label>Education</rdfs:label>
    <skos:prefLabel>Education</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
    <skos:narrower rdf:resource="#concept_0069"/>
    <skos:narrower rdf:resource="#concept_0068"/>
    <skos:narrower rdf:resource="#concept_0063"/>
    <skos:narrower rdf:resource="#concept_0070"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0069">
    <rdfs:label>Tutoring</rdfs:label>
    <skos:prefLabel>Tutoring</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0068">
    <rdfs:label>Master Class</rdfs:label>
    <skos:prefLabel>Master Class</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0063">
    <rdfs:label>Classroom Instruction</rdfs:label>
    <skos:prefLabel>Classroom Instruction</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
    <skos:narrower rdf:resource="#concept_0064"/>
    <skos:narrower rdf:resource="#concept_0067"/>
    <skos:narrower rdf:resource="#concept_0065"/>
    <skos:narrower rdf:resource="#concept_0066"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0064">
    <rdfs:label>Lecture</rdfs:label>
    <skos:prefLabel>Lecture</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0067">
    <rdfs:label>Critique</rdfs:label>
    <skos:prefLabel>Critique</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0065">
    <rdfs:label>Seminar</rdfs:label>
    <skos:prefLabel>Seminar</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0066">
    <rdfs:label>Lab</rdfs:label>
    <skos:prefLabel>Lab</skos:prefLabel>
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  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0070">
  <rdfs:label>Academic Ceremony</rdfs:label>
  <skos:prefLabel>Academic Ceremony</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0071"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0071">
  <rdfs:label>Commencement</rdfs:label>
  <skos:prefLabel>Commencement</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0350">
  <rdfs:label>Travel</rdfs:label>
  <skos:prefLabel>Travel</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0352"/>
  <skos:narrower rdf:resource="#concept_0351"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0352">
  <rdfs:label>Transport</rdfs:label>
  <skos:prefLabel>Transport</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0351">
  <rdfs:label>Transit</rdfs:label>
  <skos:prefLabel>Transit</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0168">
  <rdfs:label>Commerce</rdfs:label>
  <skos:prefLabel>Commerce</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0169"/>
  <skos:narrower rdf:resource="#concept_0180"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0169">
  <rdfs:label>Shopping</rdfs:label>
  <skos:prefLabel>Shopping</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0174"/>
  <skos:narrower rdf:resource="#concept_0175"/>
  <skos:narrower rdf:resource="#concept_0170"/>
</skos:Concept>
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<skos:Concept rdf:ID="concept_0174">
  <rdfs:label>Barter</rdfs:label>
  <skos:prefLabel>Barter</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0175">
  <rdfs:label>Markets</rdfs:label>
  <skos:prefLabel>Markets</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0177"/>
  <skos:narrower rdf:resource="#concept_0179"/>
  <skos:narrower rdf:resource="#concept_0176"/>
  <skos:narrower rdf:resource="#concept_0178"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0177">
  <rdfs:label>Garage Sale</rdfs:label>
  <skos:prefLabel>Garage Sale</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0179">
  <rdfs:label>Trade Show</rdfs:label>
  <skos:prefLabel>Trade Show</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0176">
  <rdfs:label>Flea Market</rdfs:label>
  <skos:prefLabel>Flea Market</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0178">
  <rdfs:label>Rummage Sale</rdfs:label>
  <skos:prefLabel>Rummage Sale</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0170">
  <rdfs:label>Sales</rdfs:label>
  <skos:prefLabel>Sales</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0172"/>
  <skos:narrower rdf:resource="#concept_0171"/>
  <skos:narrower rdf:resource="#concept_0173"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0172">
  <rdfs:label>Fixed-Price Sales</rdfs:label>
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    <skos:prefLabel>Fixed-Price Sales</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0171">
    <rdfs:label>Auctions</rdfs:label>
    <skos:prefLabel>Auctions</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0173">
    <rdfs:label>Bargaining Sales</rdfs:label>
    <skos:prefLabel>Bargaining Sales</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0180">
    <rdfs:label>Loans</rdfs:label>
    <skos:prefLabel>Loans</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0258">
    <rdfs:label>Medical and Scientific</rdfs:label>
    <skos:prefLabel>Medical and Scientific</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
    <skos:narrower rdf:resource="#concept_0278"/>
    <skos:narrower rdf:resource="#concept_0259"/>
    <skos:narrower rdf:resource="#concept_0291"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0278">
    <rdfs:label>Medical Conditions</rdfs:label>
    <skos:prefLabel>Medical Conditions</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
    <skos:narrower rdf:resource="#concept_0282"/>
    <skos:narrower rdf:resource="#concept_0279"/>
    <skos:narrower rdf:resource="#concept_0288"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0282">
    <rdfs:label>Conditions</rdfs:label>
    <skos:prefLabel>Conditions</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
    <skos:narrower rdf:resource="#concept_0284"/>
    <skos:narrower rdf:resource="#concept_0285"/>
    <skos:narrower rdf:resource="#concept_0287"/>
    <skos:narrower rdf:resource="#concept_0283"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0284">
    <rdfs:label>Illness</rdfs:label>
```

```
    <skos:prefLabel>Illness</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0285">
    <rdfs:label>Injury</rdfs:label>
    <skos:prefLabel>Injury</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
    <skos:narrower rdf:resource="#concept_0286"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0286">
    <rdfs:label>Broken Bones</rdfs:label>
    <skos:prefLabel>Broken Bones</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0287">
    <rdfs:label>Death</rdfs:label>
    <skos:prefLabel>Death</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0283">
    <rdfs:label>Heart Attack</rdfs:label>
    <skos:prefLabel>Heart Attack</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0279">
    <rdfs:label>Symptoms</rdfs:label>
    <skos:prefLabel>Symptoms</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
    <skos:narrower rdf:resource="#concept_0281"/>
    <skos:narrower rdf:resource="#concept_0280"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0281">
    <rdfs:label>Seizures</rdfs:label>
    <skos:prefLabel>Seizures</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0280">
    <rdfs:label>Hallucinations</rdfs:label>
    <skos:prefLabel>Hallucinations</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0288">
    <rdfs:label>Bodily Processes</rdfs:label>
    <skos:prefLabel>Bodily Processes</skos:prefLabel>
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    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
    <skos:narrower rdf:resource="#concept_0290"/>
    <skos:narrower rdf:resource="#concept_0289"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0290">
    <rdfs:label>Childbirth</rdfs:label>
    <skos:prefLabel>Childbirth</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0289">
    <rdfs:label>Menstruation</rdfs:label>
    <skos:prefLabel>Menstruation</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0259">
    <rdfs:label>Medical Procedures</rdfs:label>
    <skos:prefLabel>Medical Procedures</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
    <skos:narrower rdf:resource="#concept_0269"/>
    <skos:narrower rdf:resource="#concept_0277"/>
    <skos:narrower rdf:resource="#concept_0260"/>
    <skos:narrower rdf:resource="#concept_0270"/>
    <skos:narrower rdf:resource="#concept_0267"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0269">
    <rdfs:label>Surgeries</rdfs:label>
    <skos:prefLabel>Surgeries</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0277">
    <rdfs:label>Autopsy</rdfs:label>
    <skos:prefLabel>Autopsy</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0260">
    <rdfs:label>Examinations</rdfs:label>
    <skos:prefLabel>Examinations</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
    <skos:narrower rdf:resource="#concept_0262"/>
    <skos:narrower rdf:resource="#concept_0264"/>
    <skos:narrower rdf:resource="#concept_0263"/>
    <skos:narrower rdf:resource="#concept_0266"/>
    <skos:narrower rdf:resource="#concept_0265"/>
    <skos:narrower rdf:resource="#concept_0261"/>
  </skos:Concept>
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<skos:Concept rdf:ID="concept_0262">
  <rdfs:label>Eye Exam</rdfs:label>
  <skos:prefLabel>Eye Exam</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0264">
  <rdfs:label>EKG</rdfs:label>
  <skos:prefLabel>EKG</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0263">
  <rdfs:label>Gynecological Exam</rdfs:label>
  <skos:prefLabel>Gynecological Exam</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0266">
  <rdfs:label>X-Ray</rdfs:label>
  <skos:prefLabel>X-Ray</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0265">
  <rdfs:label>MRI</rdfs:label>
  <skos:prefLabel>MRI</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0261">
  <rdfs:label>General Physical Exam</rdfs:label>
  <skos:prefLabel>General Physical Exam</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0270">
  <rdfs:label>Non-Invasive Treatments</rdfs:label>
  <skos:prefLabel>Non-Invasive Treatments</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0275"/>
  <skos:narrower rdf:resource="#concept_0274"/>
  <skos:narrower rdf:resource="#concept_0273"/>
  <skos:narrower rdf:resource="#concept_0276"/>
  <skos:narrower rdf:resource="#concept_0271"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0275">
  <rdfs:label>Radiation Treatment</rdfs:label>
  <skos:prefLabel>Radiation Treatment</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>
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<skos:Concept rdf:ID="concept_0274">
  <rdfs:label>Acupuncture</rdfs:label>
  <skos:prefLabel>Acupuncture</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0273">
  <rdfs:label>Psychiatric Therapy</rdfs:label>
  <skos:prefLabel>Psychiatric Therapy</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0276">
  <rdfs:label>Chemotherapy</rdfs:label>
  <skos:prefLabel>Chemotherapy</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0271">
  <rdfs:label>Physical Therapy</rdfs:label>
  <skos:prefLabel>Physical Therapy</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0272"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0272">
  <rdfs:label>Massage</rdfs:label>
  <skos:prefLabel>Massage</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0267">
  <rdfs:label>Tests</rdfs:label>
  <skos:prefLabel>Tests</skos:prefLabel>
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  <skos:narrower rdf:resource="#concept_0268"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0268">
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  <skos:prefLabel>Blood Test</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0291">
  <rdfs:label>Laboratory Science</rdfs:label>
  <skos:prefLabel>Laboratory Science</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0214">
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    <rdfs:label>Social</rdfs:label>
    <skos:prefLabel>Social</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
    <skos:narrower rdf:resource="#concept_0236"/>
    <skos:narrower rdf:resource="#concept_0232"/>
    <skos:narrower rdf:resource="#concept_0215"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0236">
    <rdfs:label>Social Gathering</rdfs:label>
    <skos:prefLabel>Social Gathering</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
    <skos:narrower rdf:resource="#concept_0243"/>
    <skos:narrower rdf:resource="#concept_0237"/>
    <skos:narrower rdf:resource="#concept_0240"/>
    <skos:narrower rdf:resource="#concept_0257"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0243">
    <rdfs:label>Party</rdfs:label>
    <skos:prefLabel>Party</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
    <skos:narrower rdf:resource="#concept_0252"/>
    <skos:narrower rdf:resource="#concept_0244"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0252">
    <rdfs:label>Holiday Festival</rdfs:label>
    <skos:prefLabel>Holiday Festival</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
    <skos:narrower rdf:resource="#concept_0254"/>
    <skos:narrower rdf:resource="#concept_0253"/>
    <skos:narrower rdf:resource="#concept_0255"/>
    <skos:narrower rdf:resource="#concept_0256"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0254">
    <rdfs:label>Thanksgiving Meal</rdfs:label>
    <skos:prefLabel>Thanksgiving Meal</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0253">
    <rdfs:label>Christmas Party</rdfs:label>
    <skos:prefLabel>Christmas Party</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0255">
    <rdfs:label>New Year's Eve Party</rdfs:label>
    <skos:prefLabel>New Year's Eve Party</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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</skos:Concept>

<skos:Concept rdf:ID="concept_0256">
  <rdfs:label>Fourth of July Barbecue</rdfs:label>
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  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0244">
  <rdfs:label>Personal Celebration</rdfs:label>
  <skos:prefLabel>Personal Celebration</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0251"/>
  <skos:narrower rdf:resource="#concept_0248"/>
  <skos:narrower rdf:resource="#concept_0245"/>
  <skos:narrower rdf:resource="#concept_0249"/>
  <skos:narrower rdf:resource="#concept_0250"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0251">
  <rdfs:label>Debutante Ball</rdfs:label>
  <skos:prefLabel>Debutante Ball</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0248">
  <rdfs:label>Wedding</rdfs:label>
  <skos:prefLabel>Wedding</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0245">
  <rdfs:label>Anniversary</rdfs:label>
  <skos:prefLabel>Anniversary</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0247"/>
  <skos:narrower rdf:resource="#concept_0246"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0247">
  <rdfs:label>Wedding Anniversary</rdfs:label>
  <skos:prefLabel>Wedding Anniversary</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0246">
  <rdfs:label>Birthday</rdfs:label>
  <skos:prefLabel>Birthday</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0249">
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      <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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    <skos:Concept rdf:ID="concept_0250">
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      <skos:prefLabel>Social Debut</skos:prefLabel>
      <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
    </skos:Concept>

    <skos:Concept rdf:ID="concept_0237">
      <rdfs:label>Public Meeting</rdfs:label>
      <skos:prefLabel>Public Meeting</skos:prefLabel>
      <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
      <skos:narrower rdf:resource="#concept_0238"/>
      <skos:narrower rdf:resource="#concept_0239"/>
    </skos:Concept>

    <skos:Concept rdf:ID="concept_0238">
      <rdfs:label>Government Organization Meeting</rdfs:label>
      <skos:prefLabel>Government Organization
Meeting</skos:prefLabel>
      <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
    </skos:Concept>

    <skos:Concept rdf:ID="concept_0239">
      <rdfs:label>Press Conference</rdfs:label>
      <skos:prefLabel>Press Conference</skos:prefLabel>
      <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
    </skos:Concept>

    <skos:Concept rdf:ID="concept_0240">
      <rdfs:label>Private Meeting</rdfs:label>
      <skos:prefLabel>Private Meeting</skos:prefLabel>
      <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
      <skos:narrower rdf:resource="#concept_0242"/>
      <skos:narrower rdf:resource="#concept_0241"/>
    </skos:Concept>

    <skos:Concept rdf:ID="concept_0242">
      <rdfs:label>Briefing</rdfs:label>
      <skos:prefLabel>Briefing</skos:prefLabel>
      <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
    </skos:Concept>

    <skos:Concept rdf:ID="concept_0241">
      <rdfs:label>Office Meeting</rdfs:label>
      <skos:prefLabel>Office Meeting</skos:prefLabel>
      <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
    </skos:Concept>
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<skos:Concept rdf:ID="concept_0257">
  <rdfs:label>Visiting and Hospitality</rdfs:label>
  <skos:prefLabel>Visiting and Hospitality</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0232">
  <rdfs:label>Public Outburst</rdfs:label>
  <skos:prefLabel>Public Outburst</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0234"/>
  <skos:narrower rdf:resource="#concept_0233"/>
  <skos:narrower rdf:resource="#concept_0235"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0234">
  <rdfs:label>Lynching</rdfs:label>
  <skos:prefLabel>Lynching</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0233">
  <rdfs:label>Riot</rdfs:label>
  <skos:prefLabel>Riot</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0235">
  <rdfs:label>Protest</rdfs:label>
  <skos:prefLabel>Protest</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0215">
  <rdfs:label>Interpersonal Interaction</rdfs:label>
  <skos:prefLabel>Interpersonal Interaction</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0223"/>
  <skos:narrower rdf:resource="#concept_0217"/>
  <skos:narrower rdf:resource="#concept_0226"/>
  <skos:narrower rdf:resource="#concept_0216"/>
  <skos:narrower rdf:resource="#concept_0229"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0223">
  <rdfs:label>Personal Conflicts</rdfs:label>
  <skos:prefLabel>Personal Conflicts</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0225"/>
  <skos:narrower rdf:resource="#concept_0224"/>
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<skos:Concept rdf:ID="concept_0225">
  <rdfs:label>Physical Fights</rdfs:label>
  <skos:prefLabel>Physical Fights</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0224">
  <rdfs:label>Quarrels</rdfs:label>
  <skos:prefLabel>Quarrels</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0217">
  <rdfs:label>Romantic Interactions</rdfs:label>
  <skos:prefLabel>Romantic Interactions</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0222"/>
  <skos:narrower rdf:resource="#concept_0220"/>
  <skos:narrower rdf:resource="#concept_0219"/>
  <skos:narrower rdf:resource="#concept_0221"/>
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</skos:Concept>

<skos:Concept rdf:ID="concept_0222">
  <rdfs:label>Sexual Acts</rdfs:label>
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  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0220">
  <rdfs:label>Breakups</rdfs:label>
  <skos:prefLabel>Breakups</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0219">
  <rdfs:label>Affairs</rdfs:label>
  <skos:prefLabel>Affairs</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0221">
  <rdfs:label>Marriage Proposals</rdfs:label>
  <skos:prefLabel>Marriage Proposals</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0218">
  <rdfs:label>Dates</rdfs:label>
  <skos:prefLabel>Dates</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>
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  <rdfs:label>Conflict Resolution</rdfs:label>
  <skos:prefLabel>Conflict Resolution</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0228"/>
  <skos:narrower rdf:resource="#concept_0227"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0228">
  <rdfs:label>Negotiations</rdfs:label>
  <skos:prefLabel>Negotiations</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0227">
  <rdfs:label>Forgiving</rdfs:label>
  <skos:prefLabel>Forgiving</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0216">
  <rdfs:label>Conversations</rdfs:label>
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  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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<skos:Concept rdf:ID="concept_0229">
  <rdfs:label>Emotional Outbursts</rdfs:label>
  <skos:prefLabel>Emotional Outbursts</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0230"/>
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</skos:Concept>

<skos:Concept rdf:ID="concept_0230">
  <rdfs:label>Tantrums</rdfs:label>
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  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0231">
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  <skos:prefLabel>Hysteria</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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<skos:Concept rdf:ID="concept_0292">
  <rdfs:label>Legal and Political</rdfs:label>
  <skos:prefLabel>Legal and Political</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0330"/>
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<skos:Concept rdf:ID="concept_0330">
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  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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<skos:Concept rdf:ID="concept_0331">
  <rdfs:label>Elections</rdfs:label>
  <skos:prefLabel>Elections</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0324">
  <rdfs:label>Judicial Proceedings</rdfs:label>
  <skos:prefLabel>Judicial Proceedings</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0326"/>
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<skos:Concept rdf:ID="concept_0326">
  <rdfs:label>Trials</rdfs:label>
  <skos:prefLabel>Trials</skos:prefLabel>
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  <skos:narrower rdf:resource="#concept_0328"/>
  <skos:narrower rdf:resource="#concept_0327"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0328">
  <rdfs:label>Civil</rdfs:label>
  <skos:prefLabel>Civil</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0327">
  <rdfs:label>Criminal</rdfs:label>
  <skos:prefLabel>Criminal</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0325">
  <rdfs:label>Hearings</rdfs:label>
  <skos:prefLabel>Hearings</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>
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<skos:Concept rdf:ID="concept_0293">
  <rdfs:label>Offenses and Sanctions</rdfs:label>
  <skos:prefLabel>Offenses and Sanctions</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0294"/>
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  <rdfs:label>Sanctions</rdfs:label>
  <skos:prefLabel>Sanctions</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0302"/>
  <skos:narrower rdf:resource="#concept_0300"/>
  <skos:narrower rdf:resource="#concept_0303"/>
  <skos:narrower rdf:resource="#concept_0295"/>
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<skos:Concept rdf:ID="concept_0302">
  <rdfs:label>Public Humiliation</rdfs:label>
  <skos:prefLabel>Public Humiliation</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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<skos:Concept rdf:ID="concept_0300">
  <rdfs:label>Corporal Punishment</rdfs:label>
  <skos:prefLabel>Corporal Punishment</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0301"/>
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<skos:Concept rdf:ID="concept_0301">
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  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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<skos:Concept rdf:ID="concept_0303">
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  <skos:prefLabel>Imprisonment</skos:prefLabel>
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<skos:Concept rdf:ID="concept_0295">
  <rdfs:label>Capital Punishment</rdfs:label>
  <skos:prefLabel>Capital Punishment</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0297"/>
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<skos:Concept rdf:ID="concept_0297">
  <rdfs:label>Electric Chair</rdfs:label>
  <skos:prefLabel>Electric Chair</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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<skos:Concept rdf:ID="concept_0296">
  <rdfs:label>Hanging</rdfs:label>
  <skos:prefLabel>Hanging</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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<skos:Concept rdf:ID="concept_0299">
  <rdfs:label>Firing Squad</rdfs:label>
  <skos:prefLabel>Firing Squad</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0298">
  <rdfs:label>Lethal Injection</rdfs:label>
  <skos:prefLabel>Lethal Injection</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0304">
  <rdfs:label>Offenses</rdfs:label>
  <skos:prefLabel>Offenses</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0318"/>
  <skos:narrower rdf:resource="#concept_0305"/>
  <skos:narrower rdf:resource="#concept_0315"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0318">
  <rdfs:label>Offenses Against Property</rdfs:label>
  <skos:prefLabel>Offenses Against Property</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0319"/>
  <skos:narrower rdf:resource="#concept_0322"/>
  <skos:narrower rdf:resource="#concept_0321"/>
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  <skos:narrower rdf:resource="#concept_0320"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0319">
  <rdfs:label>Thefts</rdfs:label>
  <skos:prefLabel>Thefts</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>
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  <rdfs:label>Smuggling</rdfs:label>
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</skos:Concept>

<skos:Concept rdf:ID="concept_0321">
  <rdfs:label>Vandalism</rdfs:label>
  <skos:prefLabel>Vandalism</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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<skos:Concept rdf:ID="concept_0323">
  <rdfs:label>Hijacking</rdfs:label>
  <skos:prefLabel>Hijacking</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0320">
  <rdfs:label>Arson</rdfs:label>
  <skos:prefLabel>Arson</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0305">
  <rdfs:label>Offenses Against People</rdfs:label>
  <skos:prefLabel>Offenses Against People</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0312"/>
  <skos:narrower rdf:resource="#concept_0306"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0312">
  <rdfs:label>Verbal Aggression</rdfs:label>
  <skos:prefLabel>Verbal Aggression</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0314"/>
  <skos:narrower rdf:resource="#concept_0313"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0314">
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  <skos:prefLabel>Threats</skos:prefLabel>
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  <skos:narrower rdf:resource="#concept_0309"/>
  <skos:narrower rdf:resource="#concept_0311"/>
  <skos:narrower rdf:resource="#concept_0310"/>
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<skos:Concept rdf:ID="concept_0307">
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  <skos:prefLabel>Assault</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0308"/>
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  <skos:prefLabel>Sexual Assault</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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<skos:Concept rdf:ID="concept_0309">
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  <skos:prefLabel>Murder</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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<skos:Concept rdf:ID="concept_0311">
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  <skos:prefLabel>Kidnapping</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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<skos:Concept rdf:ID="concept_0310">
  <rdfs:label>Suicide</rdfs:label>
  <skos:prefLabel>Suicide</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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<skos:Concept rdf:ID="concept_0315">
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  <skos:prefLabel>Offenses Against the State</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0317"/>
  <skos:narrower rdf:resource="#concept_0316"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0317">
  <rdfs:label>Bribery</rdfs:label>
  <skos:prefLabel>Bribery</skos:prefLabel>
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  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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<skos:Concept rdf:ID="concept_0316">
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  <skos:prefLabel>Spying</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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<skos:Concept rdf:ID="concept_0329">
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  <skos:prefLabel>Activism</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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  <skos:prefLabel>Law Enforcement</skos:prefLabel>
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  <skos:narrower rdf:resource="#concept_0334"/>
  <skos:narrower rdf:resource="#concept_0335"/>
  <skos:narrower rdf:resource="#concept_0333"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0334">
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  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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<skos:Concept rdf:ID="concept_0335">
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<skos:Concept rdf:ID="concept_0333">
  <rdfs:label>Legal Investigation</rdfs:label>
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  <skos:prefLabel>Subsistence</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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    <skos:narrower rdf:resource="#concept_0391"/>
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  <skos:Concept rdf:ID="concept_0370">
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    <skos:narrower rdf:resource="#concept_0371"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0371">
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    <skos:prefLabel>Housecleaning</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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    <skos:narrower rdf:resource="#concept_0376"/>
    <skos:narrower rdf:resource="#concept_0372"/>
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  <skos:Concept rdf:ID="concept_0377">
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    <skos:prefLabel>Dusting</skos:prefLabel>
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  </skos:Concept>

  <skos:Concept rdf:ID="concept_0376">
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  </skos:Concept>

  <skos:Concept rdf:ID="concept_0372">
    <rdfs:label>Bedmaking</rdfs:label>
    <skos:prefLabel>Bedmaking</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0373">
    <rdfs:label>Doing dishes</rdfs:label>
    <skos:prefLabel>Doing dishes</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>
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<skos:Concept rdf:ID="concept_0374">
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  <skos:prefLabel>Laundry</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0375">
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  <skos:prefLabel>Sweeping</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0391">
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  <skos:prefLabel>Hunting</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0392">
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  <skos:prefLabel>Fishing</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0358">
  <rdfs:label>Grooming</rdfs:label>
  <skos:prefLabel>Grooming</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0359"/>
  <skos:narrower rdf:resource="#concept_0366"/>
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  <skos:prefLabel>Adornment</skos:prefLabel>
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<skos:Concept rdf:ID="concept_0360">
  <rdfs:label>Applying Cosmetics</rdfs:label>
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  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0361">
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  <skos:prefLabel>Tatooing</skos:prefLabel>
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<skos:Concept rdf:ID="concept_0366">
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  <skos:prefLabel>Cleansing</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0368"/>
  <skos:narrower rdf:resource="#concept_0367"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0368">
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  <skos:prefLabel>Bathing</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0367">
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  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0369">
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  <skos:prefLabel>Nail Clipping</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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<skos:Concept rdf:ID="concept_0362">
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  <skos:prefLabel>Hair Care</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0364"/>
  <skos:narrower rdf:resource="#concept_0365"/>
  <skos:narrower rdf:resource="#concept_0363"/>
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<skos:Concept rdf:ID="concept_0364">
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<skos:Concept rdf:ID="concept_0365">
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  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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<skos:Concept rdf:ID="concept_0363">
  <rdfs:label>Barbering</rdfs:label>
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    <skos:prefLabel>Barbering</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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  <skos:Concept rdf:ID="concept_0354">
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    <skos:prefLabel>Food Preparation</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
    <skos:narrower rdf:resource="#concept_0355"/>
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  <skos:Concept rdf:ID="concept_0355">
    <rdfs:label>Cooking</rdfs:label>
    <skos:prefLabel>Cooking</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0356">
    <rdfs:label>Baking</rdfs:label>
    <skos:prefLabel>Baking</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0378">
    <rdfs:label>Animal Husbandry</rdfs:label>
    <skos:prefLabel>Animal Husbandry</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
    <skos:narrower rdf:resource="#concept_0379"/>
    <skos:narrower rdf:resource="#concept_0380"/>
    <skos:narrower rdf:resource="#concept_0383"/>
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  <skos:Concept rdf:ID="concept_0379">
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  <skos:Concept rdf:ID="concept_0380">
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  <skos:Concept rdf:ID="concept_0383">
    <rdfs:label>Training</rdfs:label>
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<skos:Concept rdf:ID="concept_0382">
  <rdfs:label>Transporting</rdfs:label>
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<skos:Concept rdf:ID="concept_0381">
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  <skos:prefLabel>Slaughtering</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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<skos:Concept rdf:ID="concept_0384">
  <rdfs:label>Agriculture and Gardening</rdfs:label>
  <skos:prefLabel>Agriculture and Gardening</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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<skos:Concept rdf:ID="concept_0389">
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<skos:Concept rdf:ID="concept_0385">
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  <skos:prefLabel>Planting</skos:prefLabel>
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<skos:Concept rdf:ID="concept_0386">
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<skos:Concept rdf:ID="concept_0390">
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<skos:Concept rdf:ID="concept_0388">
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<skos:Concept rdf:ID="concept_0387">
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  <skos:prefLabel>Fertilizing</skos:prefLabel>
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<skos:Concept rdf:ID="concept_0357">
  <rdfs:label>Eating</rdfs:label>
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<skos:Concept rdf:ID="concept_0072">
  <rdfs:label>Leisure</rdfs:label>
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<skos:Concept rdf:ID="concept_0166">
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<skos:Concept rdf:ID="concept_0076">
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  <skos:narrower rdf:resource="#concept_0118"/>
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<skos:Concept rdf:ID="concept_0118">
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<skos:Concept rdf:ID="concept_0122">
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  <skos:prefLabel>Yoga</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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<skos:Concept rdf:ID="concept_0124">
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  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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<skos:Concept rdf:ID="concept_0121">
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<skos:Concept rdf:ID="concept_0125">
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<skos:Concept rdf:ID="concept_0123">
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<skos:Concept rdf:ID="concept_0120">
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  <skos:prefLabel>Jogging</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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<skos:Concept rdf:ID="concept_0077">
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  <skos:prefLabel>Team Sports</skos:prefLabel>
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  &lt;skos:prefLabel&gt;Water Polo&lt;/skos:prefLabel&gt;
  &lt;skos:inScheme rdf:resource="&ms;/event-taxonomy"/&gt;
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  &lt;skos:prefLabel&gt;Ice Sports&lt;/skos:prefLabel&gt;
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  &lt;rdfs:label&gt;Field Sports&lt;/rdfs:label&gt;
  &lt;skos:prefLabel&gt;Field Sports&lt;/skos:prefLabel&gt;
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  &lt;skos:narrower rdf:resource="#concept_0089"/&gt;
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  &lt;skos:prefLabel&gt;Soccer&lt;/skos:prefLabel&gt;
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&lt;skos:Concept rdf:ID="concept_0086"&gt;
  &lt;rdfs:label&gt;Ultimate&lt;/rdfs:label&gt;
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<skos:Concept rdf:ID="concept_0089">
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  <skos:prefLabel>Lacrosse</skos:prefLabel>
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  <skos:narrower rdf:resource="#concept_0081"/>
  <skos:narrower rdf:resource="#concept_0079"/>
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  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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<skos:Concept rdf:ID="concept_0110">
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  <skos:prefLabel>Racquet Sports</skos:prefLabel>
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  <skos:narrower rdf:resource="#concept_0099"/>
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<skos:Concept rdf:ID="concept_0098">
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  <skos:Concept rdf:ID="concept_0109">
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  <skos:Concept rdf:ID="concept_0113">
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    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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    <skos:narrower rdf:resource="#concept_0115"/>
    <skos:narrower rdf:resource="#concept_0117"/>
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  <skos:Concept rdf:ID="concept_0116">
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  <skos:Concept rdf:ID="concept_0115">
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  <skos:Concept rdf:ID="concept_0117">
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  <skos:Concept rdf:ID="concept_0114">
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    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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  <skos:Concept rdf:ID="concept_0112">
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  <skos:Concept rdf:ID="concept_0111">
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  <skos:Concept rdf:ID="concept_0100">
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    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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    <skos:narrower rdf:resource="#concept_0103"/>
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  <skos:Concept rdf:ID="concept_0101">
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    <skos:prefLabel>Skiing</skos:prefLabel>
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  <skos:Concept rdf:ID="concept_0103">
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  <skos:Concept rdf:ID="concept_0102">
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  <skos:Concept rdf:ID="concept_0104">
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    <skos:narrower rdf:resource="#concept_0107"/>
    <skos:narrower rdf:resource="#concept_0105"/>
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<skos:Concept rdf:ID="concept_0162">
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<skos:Concept rdf:ID="concept_0165">
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<skos:Concept rdf:ID="concept_0126">
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  <skos:narrower rdf:resource="#concept_0127"/>
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<skos:Concept rdf:ID="concept_0135">
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  <skos:narrower rdf:resource="#concept_0136"/>
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<skos:Concept rdf:ID="concept_0136">
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<skos:Concept rdf:ID="concept_0138">
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  <skos:prefLabel>Stationary Video Games</skos:prefLabel>
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  <skos:narrower rdf:resource="#concept_0140"/>
  <skos:narrower rdf:resource="#concept_0139"/>
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<skos:Concept rdf:ID="concept_0140">
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<skos:Concept rdf:ID="concept_0142">
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<skos:Concept rdf:ID="concept_0139">
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  <skos:prefLabel>Table Games</skos:prefLabel>
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  <skos:narrower rdf:resource="#concept_0150"/>
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<skos:Concept rdf:ID="concept_0150">
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<skos:Concept rdf:ID="concept_0151">
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<skos:Concept rdf:ID="concept_0144">
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  <skos:Concept rdf:ID="concept_0147">
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  <skos:Concept rdf:ID="concept_0148">
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  </skos:Concept>

  <skos:Concept rdf:ID="concept_0145">
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    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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  <skos:Concept rdf:ID="concept_0146">
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    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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  <skos:Concept rdf:ID="concept_0152">
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    <skos:narrower rdf:resource="#concept_0157"/>
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  <skos:Concept rdf:ID="concept_0157">
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    <skos:prefLabel>All-Ages Games</skos:prefLabel>
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<skos:Concept rdf:ID="concept_0153">
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  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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<skos:Concept rdf:ID="concept_0156">
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  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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<skos:Concept rdf:ID="concept_0127">
  <rdfs:label>Card and Tile Games</rdfs:label>
  <skos:prefLabel>Card and Tile Games</skos:prefLabel>
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  <skos:narrower rdf:resource="#concept_0128"/>
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  <skos:Concept rdf:ID="concept_0128">
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  <skos:Concept rdf:ID="concept_0131">
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    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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  <skos:Concept rdf:ID="concept_0129">
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    <skos:prefLabel>Poker</skos:prefLabel>
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  <skos:Concept rdf:ID="concept_0134">
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    <skos:prefLabel>Dice Games</skos:prefLabel>
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  <skos:Concept rdf:ID="concept_0132">
    <rdfs:label>Board Games</rdfs:label>
    <skos:prefLabel>Board Games</skos:prefLabel>
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    <skos:narrower rdf:resource="#concept_0133"/>
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  <skos:Concept rdf:ID="concept_0133">
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    <skos:prefLabel>Monopoly</skos:prefLabel>
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  <skos:Concept rdf:ID="concept_0073">
    <rdfs:label>Public Speaking</rdfs:label>
    <skos:prefLabel>Public Speaking</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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    <skos:narrower rdf:resource="#concept_0074"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0075">
    <rdfs:label>Debate</rdfs:label>
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    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0074">
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    <skos:prefLabel>Speech</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0041">
    <rdfs:label>Arts and Culture</rdfs:label>
    <skos:prefLabel>Arts and Culture</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
    <skos:narrower rdf:resource="#concept_0060"/>
    <skos:narrower rdf:resource="#concept_0042"/>
    <skos:narrower rdf:resource="#concept_0061"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0060">
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    <skos:prefLabel>Artistic Creation</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0042">
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    <skos:prefLabel>Artistic Expression</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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    <skos:narrower rdf:resource="#concept_0048"/>
    <skos:narrower rdf:resource="#concept_0059"/>
    <skos:narrower rdf:resource="#concept_0047"/>
    <skos:narrower rdf:resource="#concept_0046"/>
    <skos:narrower rdf:resource="#concept_0045"/>
    <skos:narrower rdf:resource="#concept_0044"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0043">
    <rdfs:label>Theater</rdfs:label>
    <skos:prefLabel>Theater</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

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    <skos:prefLabel>Dance</skos:prefLabel>
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    <skos:narrower rdf:resource="#concept_0051"/>
    <skos:narrower rdf:resource="#concept_0049"/>
    <skos:narrower rdf:resource="#concept_0054"/>
    <skos:narrower rdf:resource="#concept_0050"/>
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    &lt;skos:narrower rdf:resource="#concept_0056"/&gt;
    &lt;skos:narrower rdf:resource="#concept_0055"/&gt;
  &lt;/skos:Concept&gt;

  &lt;skos:Concept rdf:ID="concept_0051"&gt;
    &lt;rdfs:label&gt;Ballroom Dance&lt;/rdfs:label&gt;
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    &lt;skos:inScheme rdf:resource="&ms;/event-taxonomy"/&gt;
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  &lt;/skos:Concept&gt;

  &lt;skos:Concept rdf:ID="concept_0053"&gt;
    &lt;rdfs:label&gt;Latin&lt;/rdfs:label&gt;
    &lt;skos:prefLabel&gt;Latin&lt;/skos:prefLabel&gt;
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  &lt;/skos:Concept&gt;

  &lt;skos:Concept rdf:ID="concept_0052"&gt;
    &lt;rdfs:label&gt;Waltz&lt;/rdfs:label&gt;
    &lt;skos:prefLabel&gt;Waltz&lt;/skos:prefLabel&gt;
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  &lt;/skos:Concept&gt;

  &lt;skos:Concept rdf:ID="concept_0049"&gt;
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    &lt;skos:prefLabel&gt;Ballet&lt;/skos:prefLabel&gt;
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  &lt;/skos:Concept&gt;

  &lt;skos:Concept rdf:ID="concept_0054"&gt;
    &lt;rdfs:label&gt;Folk Dance&lt;/rdfs:label&gt;
    &lt;skos:prefLabel&gt;Folk Dance&lt;/skos:prefLabel&gt;
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  &lt;/skos:Concept&gt;

  &lt;skos:Concept rdf:ID="concept_0050"&gt;
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    &lt;skos:prefLabel&gt;Tap&lt;/skos:prefLabel&gt;
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    &lt;skos:prefLabel&gt;Ritualistic Dance&lt;/skos:prefLabel&gt;
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  &lt;/skos:Concept&gt;

  &lt;skos:Concept rdf:ID="concept_0058"&gt;
    &lt;rdfs:label&gt;Shamanistic Dance&lt;/rdfs:label&gt;
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    <skos:prefLabel>War Dance</skos:prefLabel>
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    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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  <skos:Concept rdf:ID="concept_0059">
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    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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  <skos:Concept rdf:ID="concept_0047">
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    <skos:prefLabel>Reading</skos:prefLabel>
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  </skos:Concept>

  <skos:Concept rdf:ID="concept_0046">
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    <skos:prefLabel>Performance Art</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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  <skos:Concept rdf:ID="concept_0045">
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    <skos:prefLabel>Music</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0044">
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    <skos:prefLabel>Movies</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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  <skos:Concept rdf:ID="concept_0061">
    <rdfs:label>Display of Works</rdfs:label>
    <skos:prefLabel>Display of Works</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>
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  <rdfs:label>Religion</rdfs:label>
  <skos:prefLabel>Religion</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0190"/>
  <skos:narrower rdf:resource="#concept_0210"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0190">
  <rdfs:label>Rites</rdfs:label>
  <skos:prefLabel>Rites</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0193"/>
  <skos:narrower rdf:resource="#concept_0207"/>
  <skos:narrower rdf:resource="#concept_0200"/>
  <skos:narrower rdf:resource="#concept_0192"/>
  <skos:narrower rdf:resource="#concept_0205"/>
  <skos:narrower rdf:resource="#concept_0191"/>
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<skos:Concept rdf:ID="concept_0193">
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  <skos:prefLabel>Purification and Atonement</skos:prefLabel>
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  <skos:narrower rdf:resource="#concept_0197"/>
  <skos:narrower rdf:resource="#concept_0199"/>
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<skos:Concept rdf:ID="concept_0195">
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  <skos:prefLabel>Confession</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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<skos:Concept rdf:ID="concept_0197">
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  <skos:Concept rdf:ID="concept_0198">
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  <skos:Concept rdf:ID="concept_0196">
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    <skos:prefLabel>Ablutions</skos:prefLabel>
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    <skos:narrower rdf:resource="#concept_0209"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0208">
    <rdfs:label>Funerals</rdfs:label>
    <skos:prefLabel>Funerals</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0209">
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    <skos:prefLabel>Wakes</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0200">
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    <skos:prefLabel>Rites of Passage</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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    <skos:narrower rdf:resource="#concept_0202"/>
    <skos:narrower rdf:resource="#concept_0204"/>
    <skos:narrower rdf:resource="#concept_0203"/>
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  <skos:Concept rdf:ID="concept_0201">
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  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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<skos:Concept rdf:ID="concept_0204">
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  <skos:prefLabel>Weddings</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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<skos:Concept rdf:ID="concept_0192">
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  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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<skos:Concept rdf:ID="concept_0205">
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  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0191">
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<skos:Concept rdf:ID="concept_0206">
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  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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<skos:Concept rdf:ID="concept_0210">
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  <skos:prefLabel>Supernatural Activities</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
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<skos:Concept rdf:ID="concept_0337">
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  <skos:prefLabel>Manufacturing</skos:prefLabel>
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  &lt;skos:Concept rdf:ID="concept_0038"&gt;
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    &lt;skos:prefLabel&gt;Dream&lt;/skos:prefLabel&gt;
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  <rdfs:label>Meditation</rdfs:label>
  <skos:prefLabel>Meditation</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0181">
  <rdfs:label>Military</rdfs:label>
  <skos:prefLabel>Military</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0182"/>
  <skos:narrower rdf:resource="#concept_0188"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0182">
  <rdfs:label>Battles</rdfs:label>
  <skos:prefLabel>Battles</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0183"/>
  <skos:narrower rdf:resource="#concept_0184"/>
  <skos:narrower rdf:resource="#concept_0185"/>
  <skos:narrower rdf:resource="#concept_0186"/>
  <skos:narrower rdf:resource="#concept_0187"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0183">
  <rdfs:label>Ambushes</rdfs:label>
  <skos:prefLabel>Ambushes</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0184">
  <rdfs:label>Bombings</rdfs:label>
  <skos:prefLabel>Bombings</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0185">
  <rdfs:label>Raids</rdfs:label>
  <skos:prefLabel>Raids</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0186">
  <rdfs:label>Massacre</rdfs:label>
  <skos:prefLabel>Massacre</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0187">
  <rdfs:label>Siege</rdfs:label>
```

```
    <skos:prefLabel>Siege</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0188">
    <rdfs:label>Scouting</rdfs:label>
    <skos:prefLabel>Scouting</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>


  <!-- Purpose -->

  <skos:TopConcept rdf:ID="concept_0401">
    <rdfs:label>Purpose</rdfs:label>
    <skos:prefLabel>Purpose</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
    <skos:narrower rdf:resource="#concept_0426"/>
    <skos:narrower rdf:resource="#concept_0421"/>
    <skos:narrower rdf:resource="#concept_0427"/>
    <skos:narrower rdf:resource="#concept_0409"/>
    <skos:narrower rdf:resource="#concept_0418"/>
    <skos:narrower rdf:resource="#concept_0412"/>
    <skos:narrower rdf:resource="#concept_0435"/>
    <skos:narrower rdf:resource="#concept_0434"/>
    <skos:narrower rdf:resource="#concept_0403"/>
    <skos:narrower rdf:resource="#concept_0411"/>
    <skos:narrower rdf:resource="#concept_0422"/>
    <skos:narrower rdf:resource="#concept_0424"/>
    <skos:narrower rdf:resource="#concept_0429"/>
    <skos:narrower rdf:resource="#concept_0431"/>
    <skos:narrower rdf:resource="#concept_0414"/>
    <skos:narrower rdf:resource="#concept_0413"/>
    <skos:narrower rdf:resource="#concept_0433"/>
    <skos:narrower rdf:resource="#concept_0416"/>
    <skos:narrower rdf:resource="#concept_0405"/>
    <skos:narrower rdf:resource="#concept_0430"/>
    <skos:narrower rdf:resource="#concept_0410"/>
    <skos:narrower rdf:resource="#concept_0425"/>
    <skos:narrower rdf:resource="#concept_0417"/>
    <skos:narrower rdf:resource="#concept_0407"/>
    <skos:narrower rdf:resource="#concept_0428"/>
    <skos:narrower rdf:resource="#concept_0420"/>
    <skos:narrower rdf:resource="#concept_0415"/>
    <skos:narrower rdf:resource="#concept_0402"/>
    <skos:narrower rdf:resource="#concept_0432"/>
    <skos:narrower rdf:resource="#concept_0419"/>
    <skos:narrower rdf:resource="#concept_0423"/>
  </skos:TopConcept>

  <skos:Concept rdf:ID="concept_0426">
    <rdfs:label>Production</rdfs:label>
```

```
    &lt;skos:prefLabel&gt;Production&lt;/skos:prefLabel&gt;
    &lt;skos:inScheme rdf:resource="&ms;/event-taxonomy"/&gt;
  &lt;/skos:Concept&gt;

  &lt;skos:Concept rdf:ID="concept_0421"&gt;
    &lt;rdfs:label&gt;Analysis&lt;/rdfs:label&gt;
    &lt;skos:prefLabel&gt;Analysis&lt;/skos:prefLabel&gt;
    &lt;skos:inScheme rdf:resource="&ms;/event-taxonomy"/&gt;
  &lt;/skos:Concept&gt;

  &lt;skos:Concept rdf:ID="concept_0427"&gt;
    &lt;rdfs:label&gt;Assembly&lt;/rdfs:label&gt;
    &lt;skos:prefLabel&gt;Assembly&lt;/skos:prefLabel&gt;
    &lt;skos:inScheme rdf:resource="&ms;/event-taxonomy"/&gt;
  &lt;/skos:Concept&gt;

  &lt;skos:Concept rdf:ID="concept_0409"&gt;
    &lt;rdfs:label&gt;Accident&lt;/rdfs:label&gt;
    &lt;skos:prefLabel&gt;Accident&lt;/skos:prefLabel&gt;
    &lt;skos:inScheme rdf:resource="&ms;/event-taxonomy"/&gt;
  &lt;/skos:Concept&gt;

  &lt;skos:Concept rdf:ID="concept_0418"&gt;
    &lt;rdfs:label&gt;Joking&lt;/rdfs:label&gt;
    &lt;skos:prefLabel&gt;Joking&lt;/skos:prefLabel&gt;
    &lt;skos:inScheme rdf:resource="&ms;/event-taxonomy"/&gt;
  &lt;/skos:Concept&gt;

  &lt;skos:Concept rdf:ID="concept_0412"&gt;
    &lt;rdfs:label&gt;Revenge&lt;/rdfs:label&gt;
    &lt;skos:prefLabel&gt;Revenge&lt;/skos:prefLabel&gt;
    &lt;skos:inScheme rdf:resource="&ms;/event-taxonomy"/&gt;
  &lt;/skos:Concept&gt;

  &lt;skos:Concept rdf:ID="concept_0435"&gt;
    &lt;rdfs:label&gt;Work&lt;/rdfs:label&gt;
    &lt;skos:prefLabel&gt;Work&lt;/skos:prefLabel&gt;
    &lt;skos:inScheme rdf:resource="&ms;/event-taxonomy"/&gt;
  &lt;/skos:Concept&gt;

  &lt;skos:Concept rdf:ID="concept_0434"&gt;
    &lt;rdfs:label&gt;Tradition&lt;/rdfs:label&gt;
    &lt;skos:prefLabel&gt;Tradition&lt;/skos:prefLabel&gt;
    &lt;skos:inScheme rdf:resource="&ms;/event-taxonomy"/&gt;
  &lt;/skos:Concept&gt;

  &lt;skos:Concept rdf:ID="concept_0403"&gt;
    &lt;rdfs:label&gt;Practice&lt;/rdfs:label&gt;
    &lt;skos:prefLabel&gt;Practice&lt;/skos:prefLabel&gt;
    &lt;skos:inScheme rdf:resource="&ms;/event-taxonomy"/&gt;
    &lt;skos:narrower rdf:resource="#concept_0404"/&gt;
  &lt;/skos:Concept&gt;
```

```
<skos:Concept rdf:ID="concept_0404">
  <rdfs:label>Rehearsal</rdfs:label>
  <skos:prefLabel>Rehearsal</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0411">
  <rdfs:label>Attempt</rdfs:label>
  <skos:prefLabel>Attempt</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0422">
  <rdfs:label>Design</rdfs:label>
  <skos:prefLabel>Design</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0424">
  <rdfs:label>Preparation</rdfs:label>
  <skos:prefLabel>Preparation</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0429">
  <rdfs:label>Demonstration</rdfs:label>
  <skos:prefLabel>Demonstration</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0431">
  <rdfs:label>Maintenance</rdfs:label>
  <skos:prefLabel>Maintenance</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0414">
  <rdfs:label>Teasing</rdfs:label>
  <skos:prefLabel>Teasing</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0413">
  <rdfs:label>Intimidation</rdfs:label>
  <skos:prefLabel>Intimidation</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0433">
  <rdfs:label>Destruction</rdfs:label>
  <skos:prefLabel>Destruction</skos:prefLabel>
```

```
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0416">
  <rdfs:label>Presentation</rdfs:label>
  <skos:prefLabel>Presentation</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0405">
  <rdfs:label>Contest</rdfs:label>
  <skos:prefLabel>Contest</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0406"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0406">
  <rdfs:label>Race</rdfs:label>
  <skos:prefLabel>Race</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0430">
  <rdfs:label>Protection</rdfs:label>
  <skos:prefLabel>Protection</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0410">
  <rdfs:label>Campaign</rdfs:label>
  <skos:prefLabel>Campaign</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0425">
  <rdfs:label>Planning</rdfs:label>
  <skos:prefLabel>Planning</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0417">
  <rdfs:label>Discussion</rdfs:label>
  <skos:prefLabel>Discussion</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
</skos:Concept>

<skos:Concept rdf:ID="concept_0407">
  <rdfs:label>Ceremony</rdfs:label>
  <skos:prefLabel>Ceremony</skos:prefLabel>
  <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  <skos:narrower rdf:resource="#concept_0408"/>
</skos:Concept>
```

```
  <skos:Concept rdf:ID="concept_0408">
    <rdfs:label>Initiation</rdfs:label>
    <skos:prefLabel>Initiation</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0428">
    <rdfs:label>Test</rdfs:label>
    <skos:prefLabel>Test</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0420">
    <rdfs:label>Investigation</rdfs:label>
    <skos:prefLabel>Investigation</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0415">
    <rdfs:label>Deception</rdfs:label>
    <skos:prefLabel>Deception</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0402">
    <rdfs:label>Performance</rdfs:label>
    <skos:prefLabel>Performance</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0432">
    <rdfs:label>Repair</rdfs:label>
    <skos:prefLabel>Repair</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0419">
    <rdfs:label>Teaching</rdfs:label>
    <skos:prefLabel>Teaching</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

  <skos:Concept rdf:ID="concept_0423">
    <rdfs:label>Creation</rdfs:label>
    <skos:prefLabel>Creation</skos:prefLabel>
    <skos:inScheme rdf:resource="&ms;/event-taxonomy"/>
  </skos:Concept>

</rdf:RDF>
```

Appendix B: Partonomy Expressed in RDF/XML

The partonomy was authored using the nXML validating XML editing mode for GNU Emacs and checked using the W3C RDF Validation Service.

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE rdf:RDF [
<!ENTITY rdf "http://www.w3.org/1999/02/22-rdf-syntax-ns#">
<!ENTITY rdfs "http://www.w3.org/2000/01/rdf-schema#">
<!ENTITY abc "http://metadata.net/harmony#">
<!ENTITY ms "http://garage.sims.berkeley.edu/MediaStreams">
]>
<rdf:RDF
 xmlns:rdf="&rdf;"
 xmlns:rdfs="&rdfs;"
 xmlns:abc="&abc;"
 xml:base="&ms;/event-partonomy">

  <!-- Anonymous birthday party location. -->
  <abc:Place rdf:nodeID="place_0"/>

  <!-- Anonymous situations used to induce ordering. -->
  <abc:Situation rdf:nodeID="situation_0"/>
  <abc:Situation rdf:nodeID="situation_1"/>

  <!-- Defined in relation to the MS "crowd" CIDI in an attempt
to model the fact that a party is conceptualized as having more than
just one guest. -->
  <abc:Agent rdf:about="&ms;#CIDI_4413"/>

  <!-- Defined as an existential facet of the above. -->
  <abc:Agent rdf:ID="guests">
    <rdfs:label xml:lang="en">guests</rdfs:label>
    <abc:phaseOf rdf:resource="&ms;#CIDI_4413"/>
    <abc:inPlace rdf:nodeID="place_0"/>
    <abc:inContext rdf:resource="#situation_0"/>
  </abc:Agent>

  <!-- The "birthday party" event is defined in relation to the
"birthday" concept from the taxonomy. -->
  <abc:Event rdf:about="&ms;/event-taxonomy#concept_0246">
    <rdfs:label xml:lang="en">birthday party</rdfs:label>
    <abc:inPlace rdf:nodeID="place_0"/>
    <abc:hasPresence rdf:resource="#guests"/>
  </abc:Event>

  <abc:Event rdf:ID="arrival">
    <rdfs:label xml:lang="en">arrival</rdfs:label>
    <abc:isSubEventOf rdf:resource="&ms;event-
taxonomy#concept_0246"/>
```

```
          <abc:precedes rdf:nodeID="situation_0"/>
        </abc:Event>

        <abc:Event rdf:ID="socializing">
          <rdfs:label xml:lang="en">socializing</rdfs:label>
          <abc:isSubEventOf rdf:resource="&ms;event-
taxonomy#concept_0246"/>
          <abc:follows rdf:nodeID="situation_0"/>
          <abc:precedes rdf:nodeID="situation_1"/>
        </abc:Event>

        <!-- Anonymous situation used to induce ordering. -->
        <abc:Situation rdf:nodeID="situation_0.0"/>

        <abc:Event rdf:ID="begin_conversation">
          <rdfs:label xml:lang="en">begin conversation</rdfs:label>
          <abc:isSubEventOf rdf:resource="#socializing"/>
          <abc:precedes rdf:nodeID="situation_0.0"/>
        </abc:Event>

        <abc:Event rdf:ID="end_conversation">
          <rdfs:label xml:lang="en">end conversation</rdfs:label>
          <abc:isSubEventOf rdf:resource="#socializing"/>
          <abc:follows rdf:nodeID="situation_0.0"/>
        </abc:Event>

        <!-- Anonymous situation used to induce ordering. -->
        <abc:Situation rdf:nodeID="situation_0.1"/>

        <!-- Defined in relation to the MS "food" CIDI. -->
        <abc:Actuality rdf:about="&ms;#CIDI_5318">
          <!-- Note that I have chosen to add redundant labels to
descriptions of resources that are already labeled in the MS CIDI
files, in order to make editing this file easier and because the RDF
graph visualizer seems to ignore labels from other files when
displaying nodes. -->
          <rdfs:label xml:lang="en">food</rdfs:label>
        </abc:Actuality>

        <!-- Defined in relation to the MS "food utensil" CIDI. -->
        <abc:Actuality rdf:about="&ms;#CIDI_4615">
          <rdfs:label xml:lang="en">food utensil</rdfs:label>
        </abc:Actuality>

        <!-- Defined in relation to the MS "liquid food" CIDI. -->
        <abc:Actuality rdf:about="&ms;#CIDI_5270">
          <rdfs:label xml:lang="en">liquid food</rdfs:label>
        </abc:Actuality>

        <!-- Defined in relation to the MS "liquid food storage
container" CIDI. -->
        <abc:Actuality rdf:about="&ms;#CIDI_23445">
```

```
          <rdfs:label xml:lang="en">liquid food storage
container</rdfs:label>
        </abc:Actuality>

        <!-- Defined in relation to the MS "liquid food drinking
container" CIDI. -->
        <abc:Actuality rdf:about="&ms;#CIDI_23446">
          <rdfs:label xml:lang="en">liquid food drinking
container</rdfs:label>
        </abc:Actuality>

        <abc:Event rdf:ID="obtain_refreshment">
          <rdfs:label xml:lang="en">obtain refreshment</rdfs:label>
          <abc:isSubEventOf rdf:resource="#socializing"/>
          <abc:precedes rdf:nodeID="situation_0.1"/>
          <abc:involves rdf:resource="&ms;#CIDI_4615"/>
          <abc:involves rdf:resource="&ms;#CIDI_5318"/>
        </abc:Event>

        <!-- Anonymous situation used to induce ordering. -->
        <abc:Situation rdf:nodeID="situation_0.1.0"/>

        <abc:Event rdf:ID="portioning_refreshment">
          <rdfs:label xml:lang="en">portioning refreshment</rdfs:label>
          <abc:isSubEventOf rdf:resource="#obtain_refreshment"/>
          <abc:precedes rdf:nodeID="situation_0.1.0"/>
        </abc:Event>

        <abc:Event rdf:ID="taking_refreshment">
          <rdfs:label xml:lang="en">taking refreshment</rdfs:label>
          <abc:isSubEventOf rdf:resource="#obtain_refreshment"/>
          <abc:hasParticipant rdf:resource="#guests"/>
          <abc:follows rdf:nodeID="situation_0.1.0"/>
        </abc:Event>

        <!-- Anonymous situation used to induce ordering. -->
        <abc:Situation rdf:nodeID="situation_0.1.1"/>

        <abc:Event rdf:ID="opening_refreshment">
          <rdfs:label xml:lang="en">opening refreshment</rdfs:label>
          <abc:isSubEventOf rdf:resource="#obtain_refreshment"/>
          <!-- Ideally we would narrow "food utensil" to "liquid food
opening tool" here, which could be instantiated by, for example,
corkscrew, bottle opener, can opener, etc. But that is a MS objects
facet issue. -->
          <abc:involves rdf:resource="&ms;#CIDI_23445"/>
          <abc:precedes rdf:nodeID="situation_0.1.1"/>
          <abc:hasAction rdf:resource="&ms;#CIDI_6635"/>
          <abc:hasAction rdf:resource="&ms;#CIDI_6964"/>
          <abc:hasAction rdf:resource="&ms;#CIDI_23059"/>
        </abc:Event>
```

```
        <!-- Defined in relation to the MS "pick up object" CIDI. -->
        <abc:Action rdf:about="&ms;#CIDI_6635">
          <rdfs:label xml:lang="en">pick up object</rdfs:label>
          <abc:hasPatient rdf:resource="&ms;#CIDI_4615"/>
        </abc:Action>

        <!-- Defined in relation to the MS "hold object in hand" CIDI.
-->
        <abc:Action rdf:about="&ms;#CIDI_6964">
          <rdfs:label xml:lang="en">hold object in hand</rdfs:label>
          <abc:hasPatient rdf:resource="&ms;#CIDI_4615"/>
        </abc:Action>

        <!-- Defined in relation to the MS "move or propel object"
CIDI. -->
        <abc:Action rdf:about="&ms;#CIDI_23059">
          <rdfs:label xml:lang="en">move or propel object</rdfs:label>
          <abc:hasPatient rdf:resource="&ms;#CIDI_4615"/>
        </abc:Action>

        <abc:Event rdf:ID="pouring_refreshment">
          <rdfs:label xml:lang="en">pouring refreshment</rdfs:label>
          <abc:isSubEventOf rdf:resource="#obtain_refreshment"/>
          <abc:involves rdf:resource="&ms;#CIDI_23445"/>
          <abc:involves rdf:resource="&ms;#CIDI_23446"/>
          <abc:involves rdf:resource="&ms;#CIDI_5270"/>
          <abc:follows rdf:nodeID="situation_0.1.1"/>
        </abc:Event>

        <abc:Event rdf:ID="ingest_refreshment">
          <rdfs:label xml:lang="en">ingest refreshment</rdfs:label>
          <abc:isSubEventOf rdf:resource="#socializing"/>
          <abc:follows rdf:nodeID="situation_0.1"/>
          <abc:involves rdf:resource="&ms;#CIDI_4615"/>
          <abc:destroys rdf:resource="&ms;#CIDI_5318"/>
        </abc:Event>

        <abc:Event rdf:ID="maintenance">
          <rdfs:label xml:lang="en">maintenance</rdfs:label>
          <abc:isSubEventOf rdf:resource="&ms;event-
taxonomy#concept_0246"/>
          <abc:follows rdf:nodeID="situation_0"/>
          <abc:precedes rdf:nodeID="situation_1"/>
        </abc:Event>

        <abc:Event rdf:ID="cake_ceremony">
          <rdfs:label xml:lang="en">cake ceremony</rdfs:label>
          <abc:isSubEventOf rdf:resource="&ms;event-
taxonomy#concept_0246"/>
          <abc:follows rdf:nodeID="situation_0"/>
          <abc:precedes rdf:nodeID="situation_1"/>
        </abc:Event>
```

```
        <abc:Event rdf:ID="present_opening">
          <rdfs:label xml:lang="en">present opening</rdfs:label>
          <abc:isSubEventOf rdf:resource="&ms;event-
taxonomy#concept_0246"/>
          <abc:follows rdf:nodeID="situation_0"/>
          <abc:precedes rdf:nodeID="situation_1"/>
        </abc:Event>

        <abc:Event rdf:ID="departure">
          <rdfs:label xml:lang="en">departure</rdfs:label>
          <abc:isSubEventOf rdf:resource="&ms;event-
taxonomy#concept_0246"/>
          <abc:follows rdf:nodeID="situation_1"/>
        </abc:Event>

      </rdf:RDF>
```

Appendix C: Partonomy Expressed as an RDF Graph