

Schema

Wednesday, October 10, 2007
2:39 PM

Conceptual pieces

- Nodes
 - Topic/Event
 - e.g. American Wars (topic only)
 - e.g. The Civil War (topic *and* event)
 - e.g. The Battle of Antietam (event only)
 - Location
 - e.g. Antietam
 - Person
 - e.g. Robert E. Lee
- Node properties (parens show an example: the Civil War)
 - Title
 - Type
 - Blurb (A short description to be shown by default)
 - Description (A long description, not shown by default)
 - Start Date/Time
 - End Date/Time
 - Citations/More resources
- Relations
 - (implicit)
 - Time/time period
 - Region
 - Participants
 - (explicit: input by hand)
 - Logical - This will be the majority of the relationships that are of interest, and will carry a much higher weight in the user interface
- Retrieval Queries (that I'd like to be efficient)
 1. Select nodes related by {relation-type}
 2. Select children of a node, by detail
(Really just a sub-type of 1.)
 3. Select parents of a node, by detail
 4. Select topics that a node is in
 5. Select nodes of same node-type
 6. Select nodes for a specific time-period
Select nodes for {now}
 7. Select region for a set of nodes

SQL tables:

- nodes: uid, title, type, blurb, description, start_date, end_date
 - All the nodes (regardless of type)
- node_citations: uid, author, title, year, city, publisher, url
 - Citations for a node
 - Many citations to one node
- node_relation: from_uid, to_uid, type
 - Relationships between nodes
 - Many to many
 - 'Type' needs its own secondary index
- node_region: uid, latitude, longitude
 - A set of points for a given node
 - Many points to one node