



GTM: Graphical Notation for Topic Maps

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Graphical Representation Spaces

- **Types**
 - Topic types (TT)
 - Name Type (NT)
 - Association types (AT)
 - Occurrence types (OT)
 - Role types (RT)
 - (TMCL constraints)
- **Information items**
 - Topic name items
 - Variant items
 - Occurrence items
 - Association items
 - Association role items
 - (Information resource)
- **Scope**
 - Topic name
 - Variant
 - Occurrence
 - Association
- **Special associations**
 - Type-instance
 - Supertype-subtype
- **Reifiable**
 - Association Role
 - TopicName
 - Association
 - Occurrence
 - Variant
 - TopicMap

Discussion (1/3)

- Types and Instances
 - Types: *Italic texts*
 - Instances: normal texts
- Type as a Topic
 - How to differentiate types and topics (both are topics)
- Reifiables
 - Proxy notation
- Values and DataTypes
 - CTM text representation

Discussion (2/3)

- **Graphical Model**
 - **Layers**
 - A collection of information items (Topic, Association, Occurrence)
 - Filters to specify information items
 - Operations to apply
 - Membership condition,
 - Layer Union,
 - Layer Intersection,
 - Layer Join
 - **Icons**
 - **Pop-up (mouse-over display)**
 - Annotation
 - Properties
 - **Views**
 - Viewpoint
 - Perspective
 - 2.5D
 - **Visual properties**
 - Size, color, location
 - XML Infoset
 - **Topic “Maps”**
 - Legend
 - **Textual Representation**
 - Serialization of the graphical model
 - **Navigation model**



Discussion (3/3)

- Commitments on Representation Space
- Phased development (7-0, 7-1, 7-2, ...)
 - 7-0 : very basic
 - 7-1 : graphical model
 - 7-2 : Graphical query and navigation (including filters)
 - 7-3 : TMCL encoding

