Computer History Museum Software Collection Metadata The Discovery Process

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Agenda

- Meta data Items Defined
- Meta data Item Relationships Defined
- Dublin Core
  - Define the Meta data
    - Provide Content and Context: Using Dublin Core
    - Leverage CHM Existing Application for Software Collection
    - Examples

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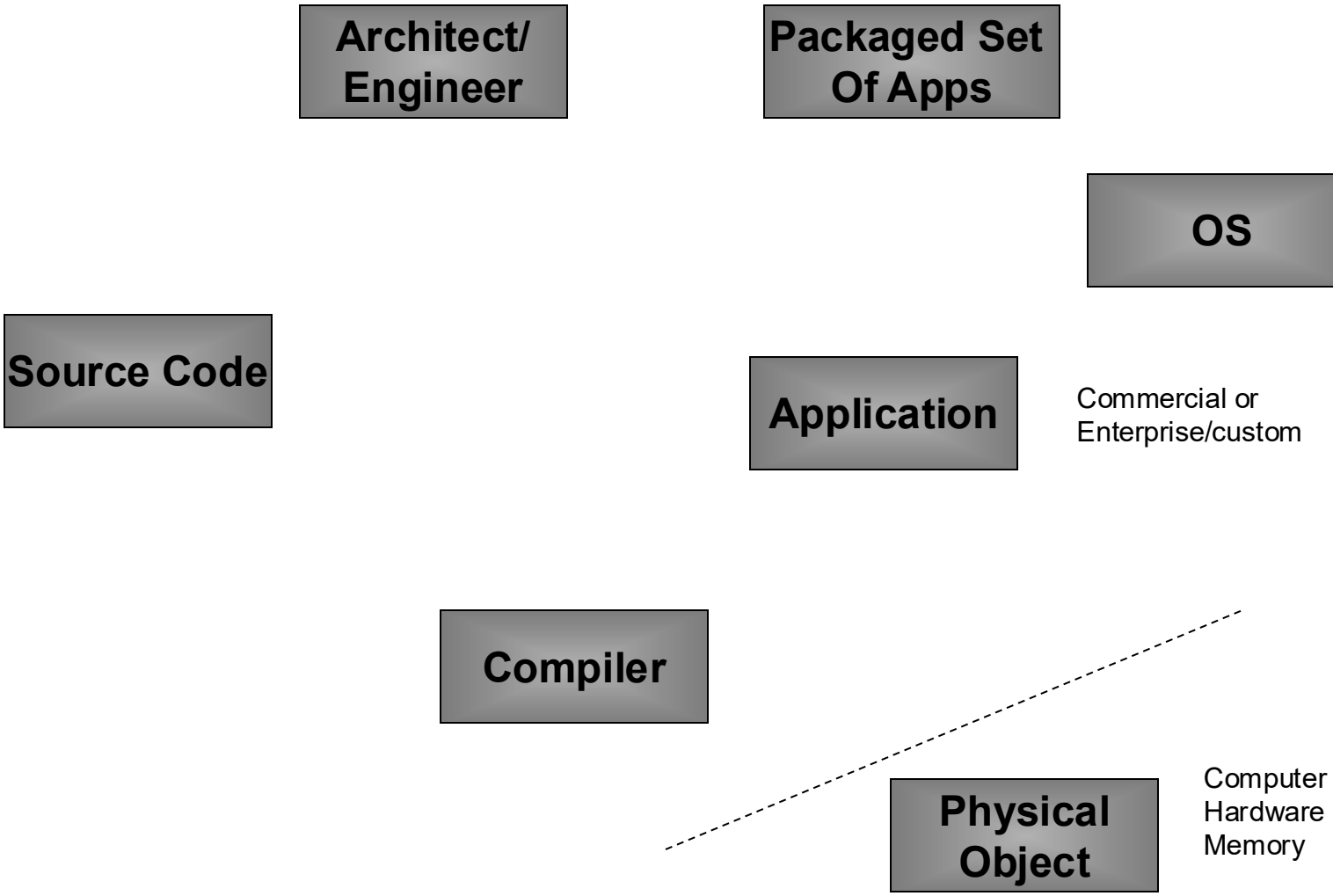
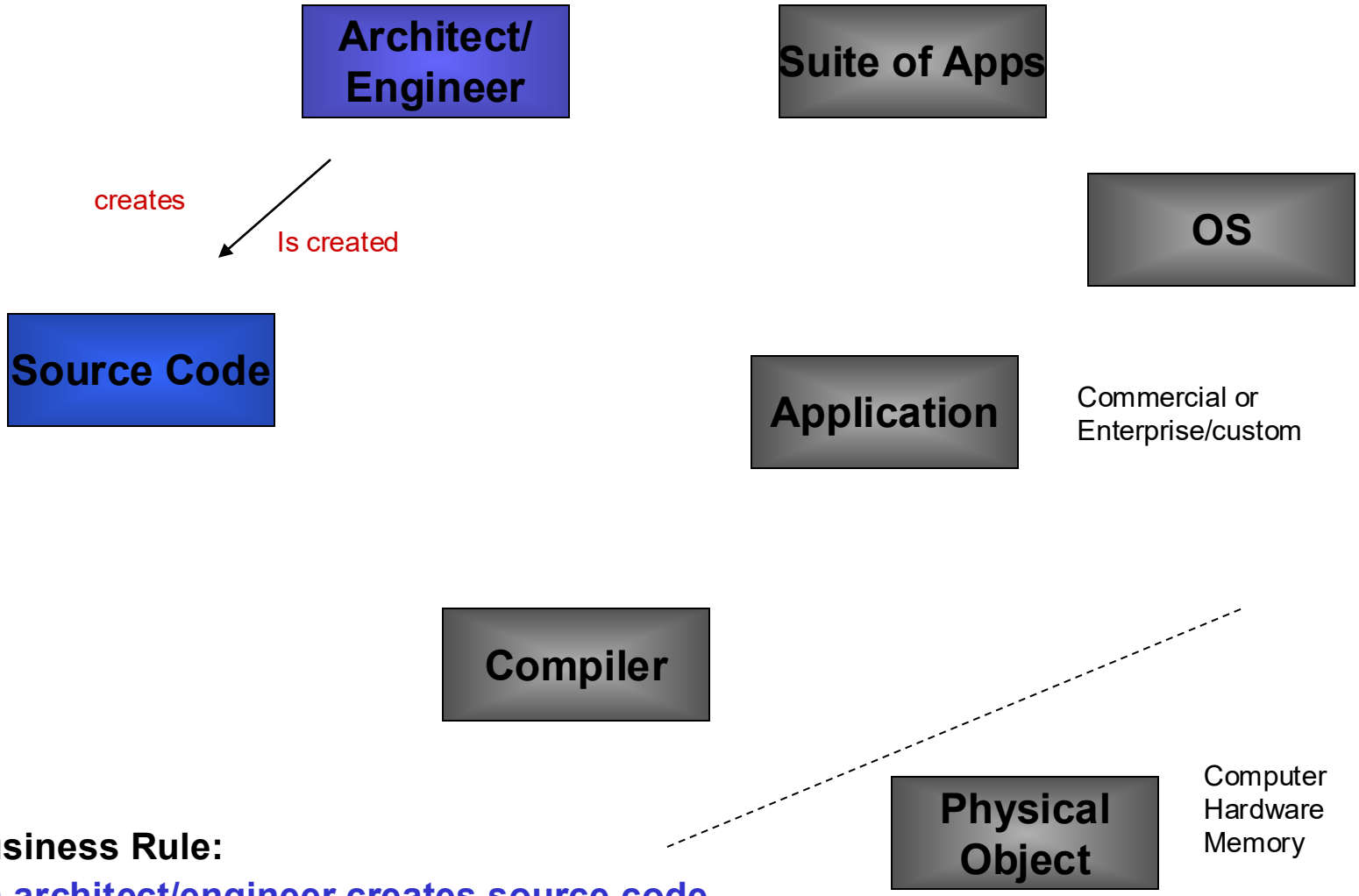
Software Meta Data Items



Software Meta Data Items: Creating Relationships

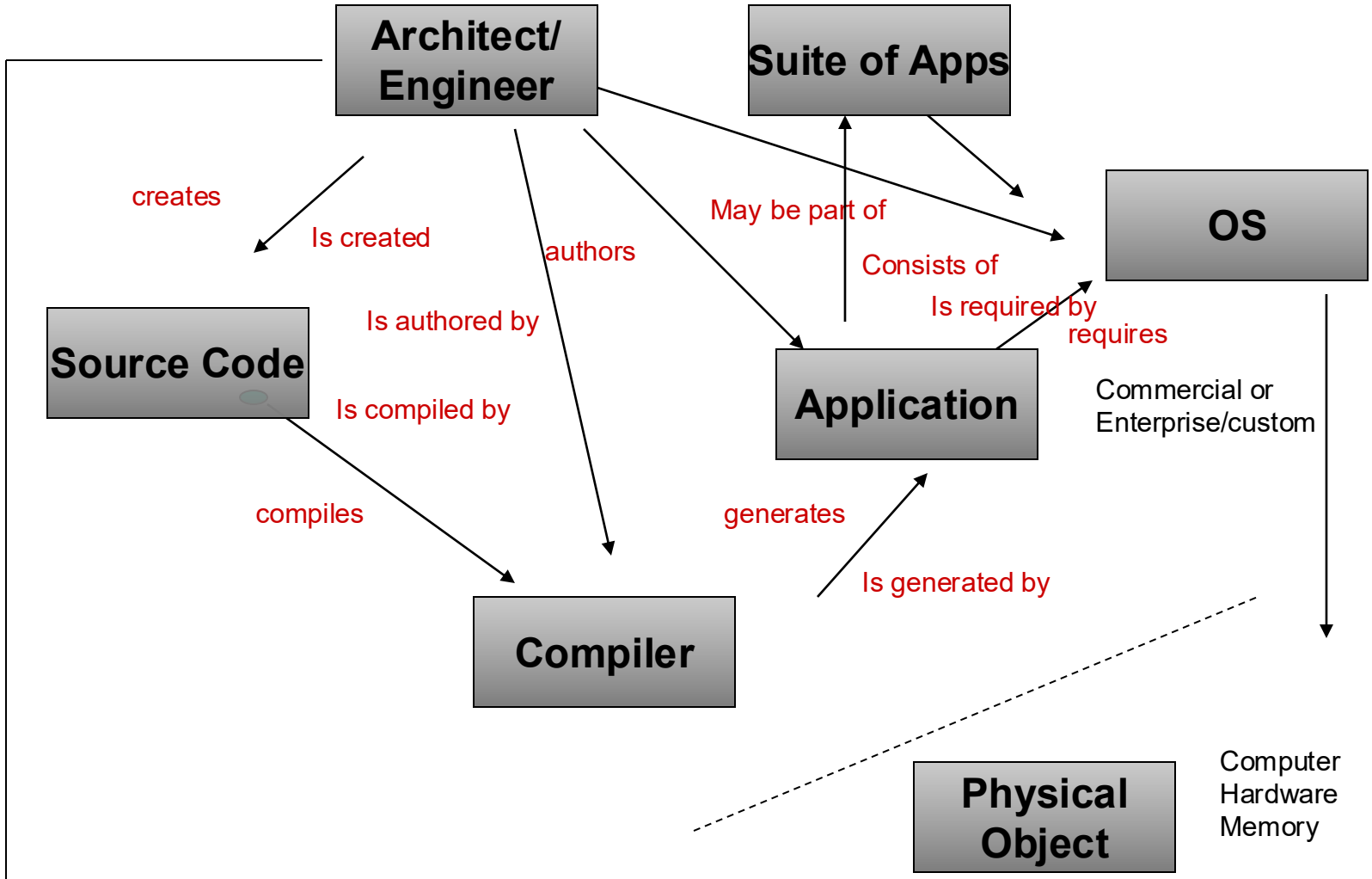


Business Rule:

An architect/engineer creates source code.

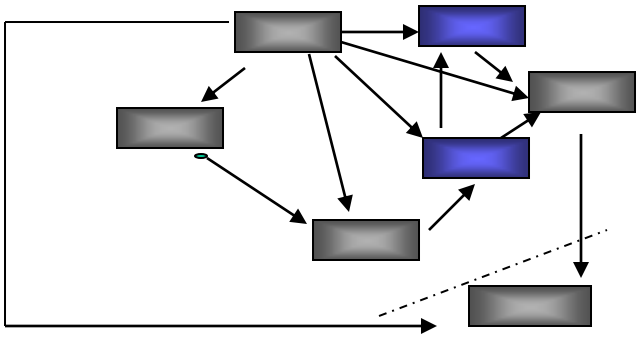
Source code is created by an architect/engineer

Software Meta Data items and Relationships



Framework Example

- Framework is an Example of a Bundled Commercial Application:
  - Shrink wrapped box
    - 5 1/4” floppies
    - End User Documentation Getting Started Video
    - Keyboard Command Template
    - More…



Other Important Properties

- Software Version/Release Information
- Operating System Relationship
- Architect/Engineer Relationship
- Source Code Information/Relationship
- Physical Object Relationships
  - Computer
  - Memory
- The “History” of the Product
  - Articles, Interviews
    - Text, Video, Audio

Describing Items in the Collection

- Record the minimum amount of information necessary to uniquely identify an item and make it retrievable
- Use one set of metadata elements to describe all type of items in the collection: hardware, software, documentation, ephemera, and media
- Use a standard set of elements to facilitate collaborative sharing among members of the research community, e.g. Dublin Core Metadata Element Set www.dublincore.org

Dublin Core

Sample Dublin Core Metadata:

- Title
- Creator
- Subject
- Description
- Publisher
- Contributor
- Date
- Resource Type
- Format
- Identifier
- Source
- Language
- Relation
- Coverage
- Rights

- Each is a repeating field
- Only use those that are relevant
- Use controlled vocabulary
- Add fields as needed

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Dublin Core

Relation Metadata Element

- Used to express linkages among related resources
- “Qualified Dublin Core”
- <Relation.HasPart>
- <Relation.IsPartOf>

Format Metadata Element

Used to determine the software, hardware or other equipment needed to display or operate the resource

Example

Framework III is a boxed set, containing two manuals

Record for the boxed set:

<Title>Framework III, the organizing, analyzing and communicating solution
<Type>Text
<Relation.HasPart>Using Framework III
<Relation.HasPart>FRED Framework III

Record for one of the manuals within the set:

<Title>FRED Framework III
<Type>Text
<Relation.IsPartOf>Framework III, the organizing, analyzing and communicating solution

Example

Record for a software tutorial not a part of the boxed set

<Title>Framework III system 1/tutorial

<Type>Software

<Format.Dimensions>3.5 inches
<Format.Extent>1 diskette
<Format>IBM PC Convertible
<Format>IBM PS/2
<Format>NEC MultiSpeed

Example

Record for a demonstration video

<Title>Framework III demonstration video

<Type>Image

<Format.Dimensions>1/2 inch
<Format.Extent>1 videotape (8.00 minutes)
<Format>Sony VHS

Metadata for Retrieval

Retrieve information on software for what purpose?

To:

1. Inventory
2. Exhibit
3. Preserve
4. Research
5. Educate

Data Standards

CHM Short Term Metadata Requirements

- Inventory
- Exhibit

The framework is almost in place to start entering the necessary metadata

A volunteer and staff training program within a few months

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Long Term Metadata Requirements

- Preserve
- Research
- Educate

Need the advice of the SCC on specific requirements

The Metadata Subcommittee will review requirements and make sure the right metadata is in place to support them