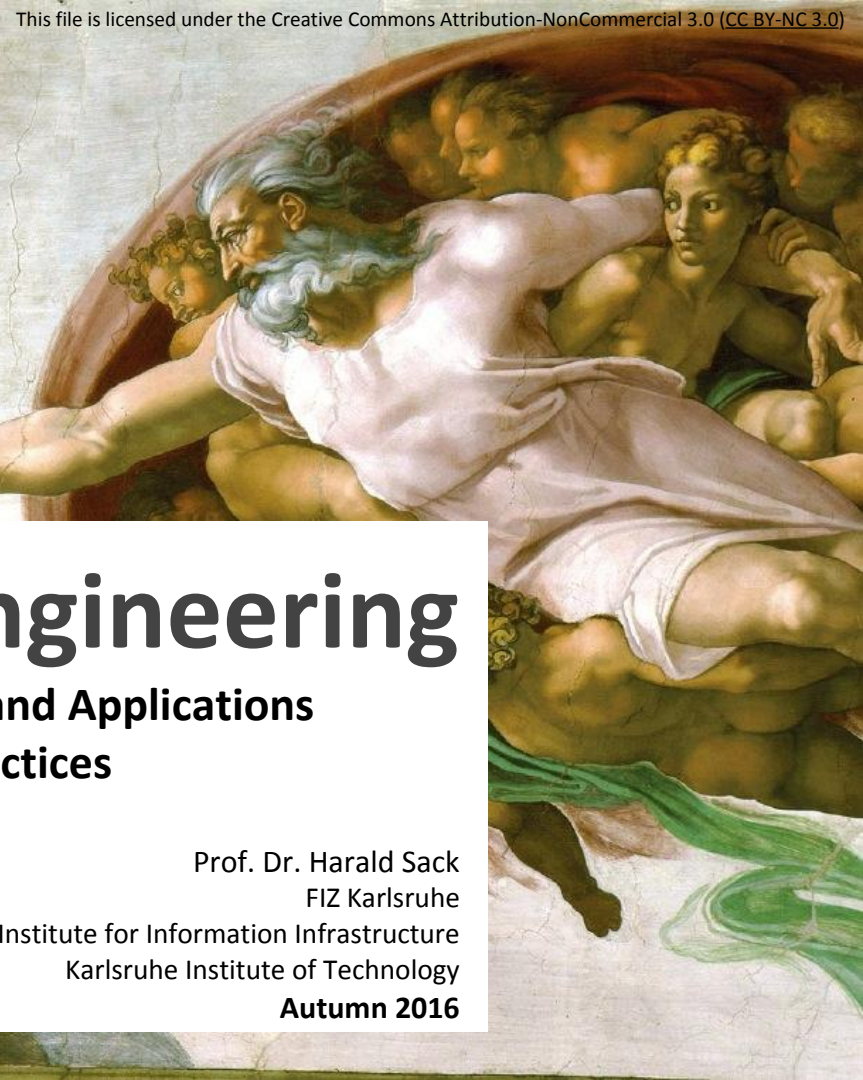




Lecture 5: Linked Data Mashups and Applications

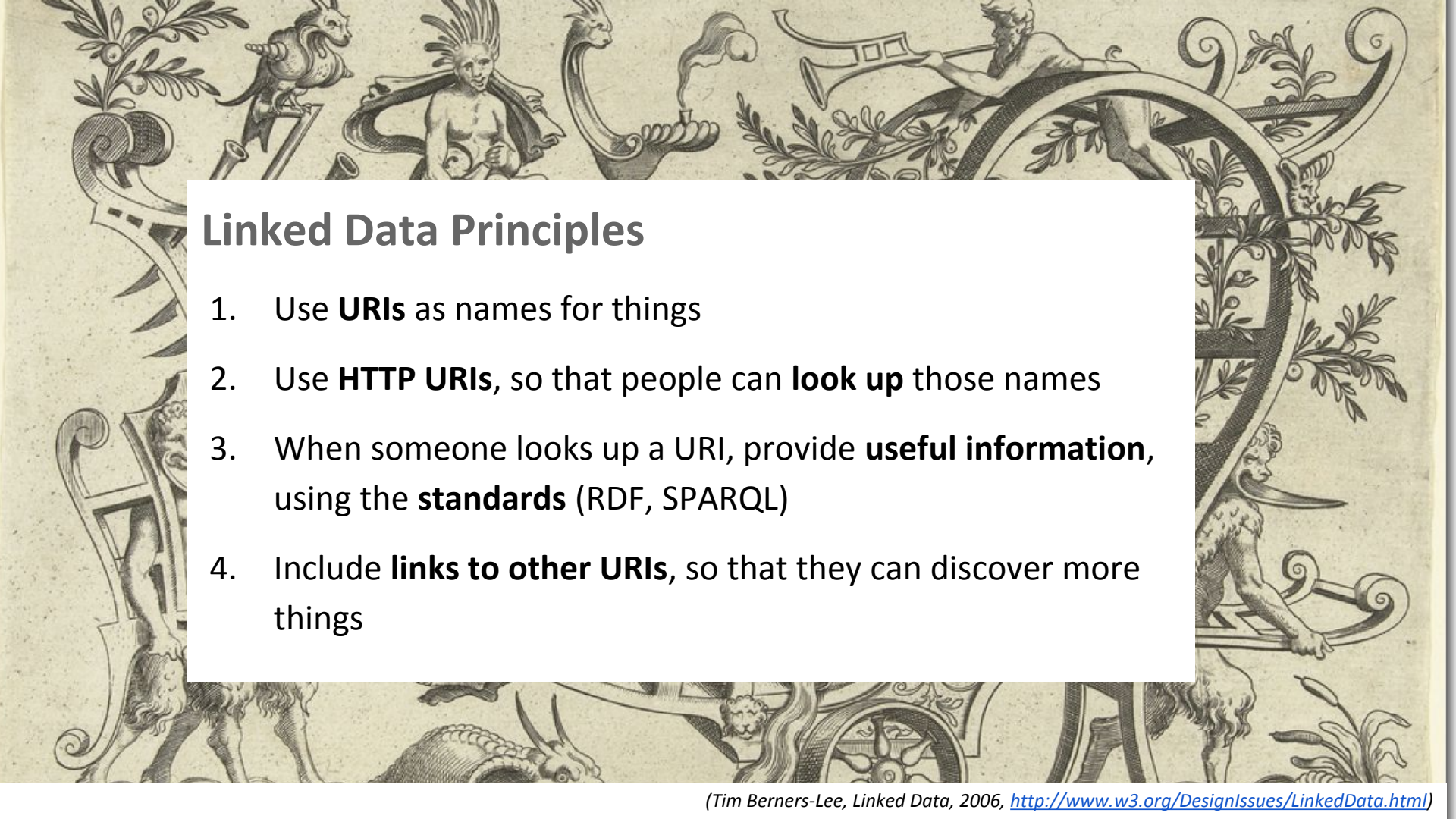
5.2 Publish Linked Data - Best Practices



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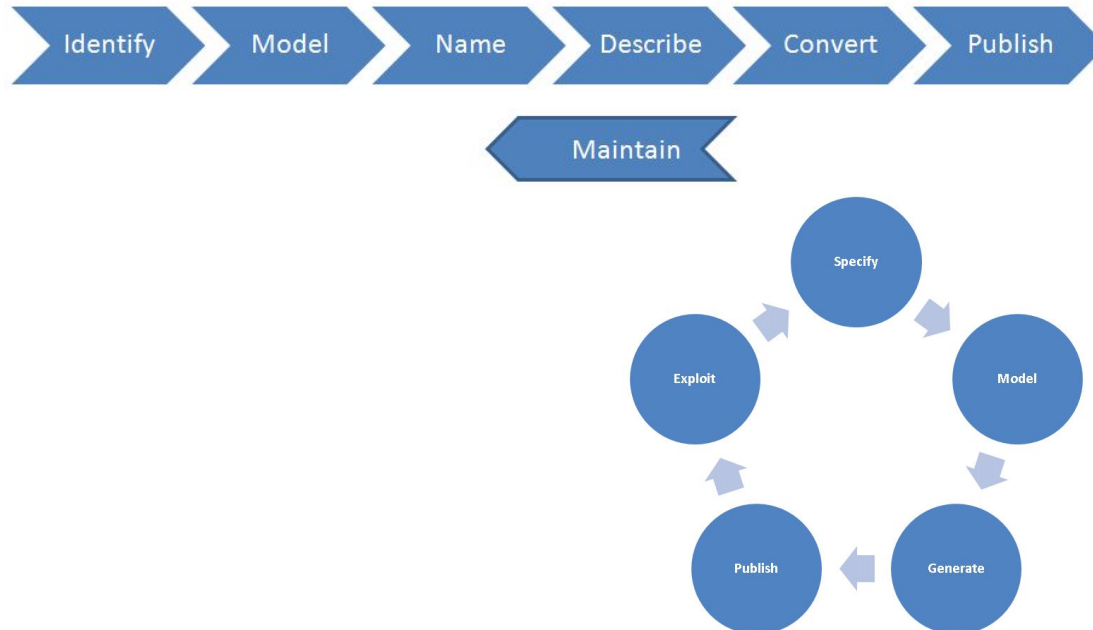
The background of the slide is a detailed, sepia-toned illustration. It features a variety of figures and symbols: a unicorn-like creature on the left, a figure with a large feathered headdress in the center, a hand holding a smoking pipe, a figure playing a trumpet, and a figure with a long, curved horn. The scene is framed by elaborate, swirling acanthus leaves and scrolls.

Linked Data Principles

1. Use **URIs** as names for things
2. Use **HTTP URIs**, so that people can **look up** those names
3. When someone looks up a URI, provide **useful information**, using the **standards** (RDF, SPARQL)
4. Include **links to other URIs**, so that they can discover more things

Linked Data Publishing - Best Practices

1. **Prepare Stakeholders** by explaining the process of **creating** and **maintaining** Linked Open Data.



B. Hyland; D. Wood. [The Joy of Data - Cookbook for Publishing Linked Government Data on the Web](#)

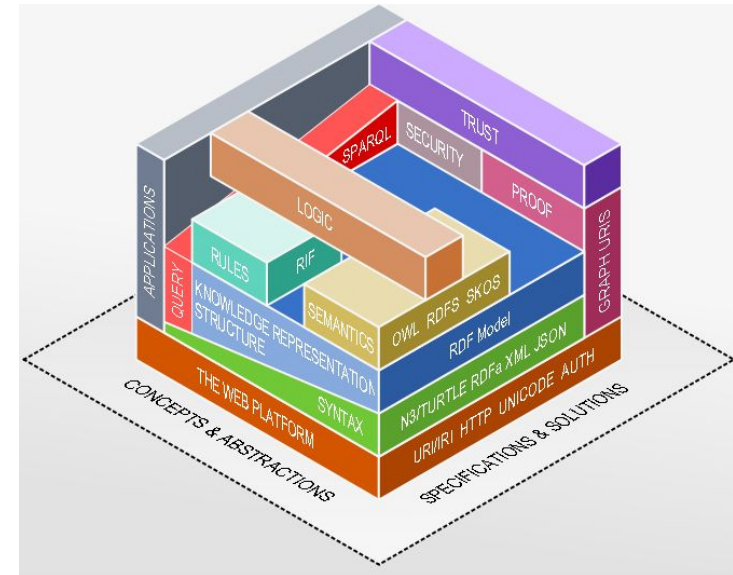
Boris Villazón-Terrazas; et al.. [Methodological Guidelines for Publishing Government Linked Data](#)

Linked Data Publishing - Best Practices

1. Prepare Stakeholders
2. **Select a dataset** that provides benefit to others for reuse.

Linked Data Publishing - Best Practices

1. Prepare Stakeholders
2. Select a dataset
3. **Model Linked Data** by representing data objects and how they are related in an application-independent way



Linked Data Publishing - Best Practices

1. Prepare Stakeholders
2. Select a dataset
3. Model Linked Data
4. Specify an **appropriate open data license**



<https://creativecommons.org/>



Open Knowledge
Foundation

<http://opendatacommons.org/>

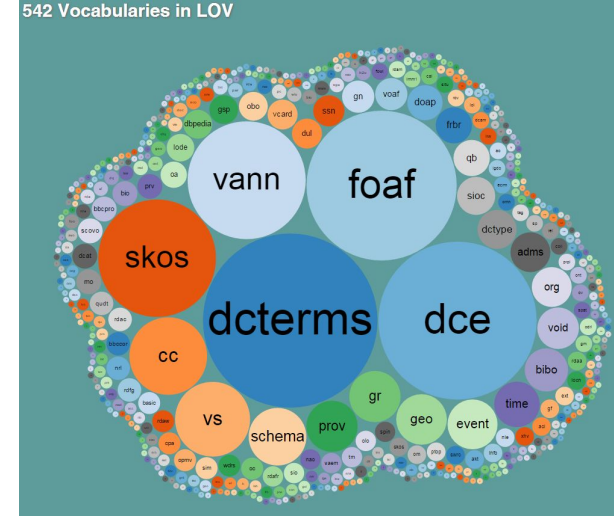
- Use / reuse / redistribute / commercial use / attribution / etc...

Linked Data Publishing - Best Practices

1. Prepare Stakeholders
2. Select a dataset
3. Model Linked Data
4. Specify an appropriate license
5. Use **well-considered URI naming strategy** and implementation plan, based on **HTTP URIs**
 - Provide also machine readable version of the resource under the URI
 - Persistent URIs

Linked Data Publishing - Best Practices

1. Prepare Stakeholders
2. Select a dataset
3. Model Linked Data
4. Specify an appropriate license
5. Good URIs for Linked Data
6. Describe objects with **previously defined vocabularies** whenever possible. Extend **standard vocabularies** where necessary, and create **new vocabularies** (only when required) that follow best practices whenever possible



<https://lov.okfn.org/dataset/lov/>

Linked Data Publishing - Best Practices

1. Prepare Stakeholders
2. Select a dataset
3. Model Linked Data
4. Specify an appropriate license
5. Good URIs for Linked Data
6. Use standard vocabularies
7. **Convert data** to a Linked Data representation



Linked Data Publishing - Best Practices

1. Prepare Stakeholders
2. Select a dataset
3. Model Linked Data
4. Specify an appropriate license
5. Good URIs for Linked Data
6. Use standard vocabularies
7. Convert Linked Data
8. Provide various ways for search engines and other automated processes to **access data using standard Web mechanisms**
 - Direct URI resolution ("follow your nose"),
 - a RESTful API,
 - a SPARQL endpoint, and/or
 - via file download

Linked Data Publishing - Best Practices

1. Prepare Stakeholders
2. Select a dataset
3. Model Linked Data
4. Specify an appropriate license
5. Good URIs for Linked Data
6. Use standard vocabularies
7. Convert Linked Data
8. Provide machine access to data
9. Remember to **announce new data sets** on an authoritative domain.
Importantly, remember that as a Linked Open Data publisher, an implicit social contract is in effect

Linked Data Publishing - Best Practices

1. Prepare Stakeholders
2. Select a dataset
3. Model Linked Data
4. Specify an appropriate license
5. Good URIs for Linked Data
6. Use standard vocabularies
7. Convert Linked Data
8. Provide machine access to data
9. Announce new data sets
10. Recognize **your responsibility** in maintaining data once it is published.
Ensure that the dataset(s) remain available where your organization says it will be and is maintained over time

Linked Data Publishing - Best Practices

1. Prepare Stakeholders
2. Select a dataset
3. Model Linked Data
4. Specify an appropriate license
5. Good URIs for Linked Data
6. Use standard vocabularies
7. Convert Linked Data
8. Provide machine access to data
9. Announce new data sets
10. Recognize the social contract

Best Practices for Publishing

Linked DataW3C Working Group Note 09 January 2014

<https://www.w3.org/TR/ld-bp/>



Next: 03 - How to Publish your own Linked Data

Lecture 5 - Linked Data Mashups & Applications - OpenHPI - Course Linked Data Engineering