



IVOA Note on the Best Practices for DOI creation (archive edition)

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Whenever I feel like giving this talk

AMERICAN ASTRONOMICAL SOCIETY

Implementations of DOI creation by archives are numerous and diverse

1. Causality for creating DOIs;
2. Quality and uniformity of metadata;
3. Machine-actionable data links;
4. Roles for DOIs on Science Platforms.

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This is just an outline. The rest of the slides are also outlines.

Causality for creating DOIs

1. Persistent de-referenceable links to data;
 2. Attribution for creators;
 3. Enhancing discoverability;
 4. Tracking usage;
 5. Because everyone else is doing it.
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Quality and uniformity of metadata

1. **Author:** Everyone who contributed! Or no one.
 2. **Title:** Unique and descriptive!
 3. **Description:** This is a description.
 4. **Version(s):** Care or not care?
 5. **Relationships:** So much power; so little guidance.
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Machine-actionable data links

1. DOIs are **not** data links. They do not lead to data discoverable by a machine;
2. Roles for **schema.org** tagging of DOI landing pages;
3. Other systems for providing machine-actionable links.

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Roles for DOIs on Science Platforms

1. How will authors port **data** off Science Platforms and into citable, persistent entities? **Software**?
2. Where's the module for that?
3. **Wait**, if reproducibility matters, why are we porting data off Science Platforms?

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Discussion

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