Working with Research Data

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Outline

- Accessing and reusing research data
- Computational environments for data processing
- Storing data, from files to databases
- Research data versioning and backup

Data Access

- It's complicated but it is improving
- Drivers for better access
  - Open Data imperative
  - Credit for publishing data
  - Increase return on investment in scientific research
  - Funders requiring data to be published
- Correspondingly, supporting infrastructures is
  - Increasing in number and quality
  - Adopting principles, guidelines, standards
  - Supporting human and programmatic access

Data Access

- You know how to access your data
- More difficult is access to data authored by others
- Presumes that data are published
- How to find data?
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Data Processing

Storing Data

Versioning and Backup

Take aways