[Research Data Management and Sharing](https://www.coursera.org/learn/data-management/home/welcome) – Coursera

Repositories to manage, store, access, share data and preserve for futur access

Data management plan

1. Discovery and planning: format of data, collecting / combining or analyzing existing data set / privacy / confidentiality / restriction to place on new data + define documentation to create the data + identify users of data + create repository to store data + costs
2. Data collection : file organisation to avoid duplicate data and out-of-sync versions, decrease risks of losing content and locate specific documents easier + back up and storage strategies (discuss with IT) + compliance with quality protocols (outline and document the steps and processes necessary for checking and reviewing the data during and after it is collected) + consider access control and data security
3. Data preparation and analysis: clean/manipulate or process the raw data, create a master version of the data and document any change to the original raw data. Final version of the data in read only. Document analysis procedure (modification, model use, code use, hardware and software)
4. Publication and sharing: Prepare document to reuse the data, repositories, god format and quality control of data. Make sure data will be preserved, discoverable and usable in the futur
5. Long-term management: stored in repositories, ensure integrity and protect against data loss

