

R Notebook

GEO Data Sharing and Data Management Principles Crosswalk Analysis

Reading data from the Google Sheet

- Source of crosswalk information:
- Source worksheets:

```
dmp_crosswalk[c(1,4,5,6,7)] %>%
  qflectable() %>%
  set_header_labels(
    values = list(DataSharingPrinciple = "Data Sharing Principle",
                  "Lifecycle-EDMF" = "EDMF",
                  "Lifecycle-NSTC" = "NSTC",
                  "Lifecycle-EEA" = "EEA",
                  "Lifecycle-NIST" = "NIST",
                  "Lifecycle-DataONE" = "DataONE")) %>%
  fontsize(size = 7, part = "body") %>%
  fit_to_width(max_width = 6.5, unit = "in")
```

```
## Warning: Warning: fonts used in `flectable` are ignored because the `pdflatex`
## engine is used and not `xelatex` or `lualatex`. You can avoid this warning
## by using the `set_flectable_defaults(fonts_ignore=TRUE)` command or use a
## compatible engine by defining `latex_engine: xelatex` in the YAML header of the
## R Markdown document.
```

Data Sharing Principle	NSTC	EEA	NIST	DataONE
DMP-1: Metadata for Discovery	NSTC-A	EEA-J	NIST-B	DataONE-A
DMP-1: Metadata for Discovery				DataONE-D
DMP-1: Metadata for Discovery				DataONE-F
DMP-2: Online Access	NSTC-B	EEA-K	NIST-B	DataONE-A
DMP-2: Online Access				DataONE-F
DMP-2: Online Access				DataONE-G
DMP-3: Data Encoding	NSTC-D	EEA-H	NIST-A	DataONE-A
DMP-3: Data Encoding			NIST-B	DataONE-E
DMP-3: Data Encoding			NIST-D	DataONE-G
DMP-3: Data Encoding			NIST-E	DataONE-H

Data Sharing Principle	NSTC	EEA	NIST	DataONE
DMP-4: Data Documentation	NSTC-C	EEA-J	NIST-B	DataONE-A
DMP-4: Data Documentation			NIST-C	DataONE-D
DMP-4: Data Documentation			NIST-D	DataONE-F
DMP-4: Data Documentation			NIST-E	DataONE-G
DMP-4: Data Documentation				DataONE-H
DMP-5: Data Traceability		EEA-J	NIST-D	DataONE-A
DMP-5: Data Traceability			NIST-E	DataONE-B
DMP-5: Data Traceability				DataONE-C
DMP-5: Data Traceability				DataONE-D
DMP-5: Data Traceability				DataONE-H
DMP-6: Data Quality-Control		EEA-I	NIST-C	DataONE-A
DMP-6: Data Quality-Control			NIST-D	DataONE-B
DMP-6: Data Quality-Control				DataONE-C
DMP-6: Data Quality-Control				DataONE-D
DMP-7: Data Preservation		EEA-L	NIST-D	DataONE-A
DMP-7: Data Preservation			NIST-F	DataONE-E
DMP-8: Data and Metadata Verification		EEA-L	NIST-D	DataONE-B
DMP-8: Data and Metadata Verification			NIST-F	DataONE-C
DMP-8: Data and Metadata Verification				DataONE-D
DMP-8: Data and Metadata Verification				DataONE-E
DMP-8: Data and Metadata Verification				DataONE-F
DMP-9: Data Review and Reprocessing		EEA-L	NIST-F	DataONE-B
DMP-9: Data Review and Reprocessing				DataONE-C
DMP-9: Data Review and Reprocessing				DataONE-E
DMP-10: Persistent and Resolvable Identifiers	NSTC-A		NIST-E	DataONE-A
DMP-10: Persistent and Resolvable Identifiers				DataONE-B
DMP-10: Persistent and Resolvable Identifiers				DataONE-D
DMP-10: Persistent and Resolvable Identifiers				DataONE-F
DMP-10: Persistent and Resolvable Identifiers				DataONE-G

Visualize some relationships

```
graph <- graph_from_data_frame(d = e_dmp_lifecycle, directed = FALSE)

## Warning in eattrs[[nam[i]]][idx] <- attrs[[nam[i]]]: number of items to replace
## is not a multiple of replacement length

ggraph(graph) +
  geom_edge_link0() +
  geom_node_point()

## Using `stress` as default layout
```

