



TOOL



THE GOOD



THE BAD

COLLECTING

DATA

CLEANING

DATA

STORING

DATA

VISUALIZING

DATA

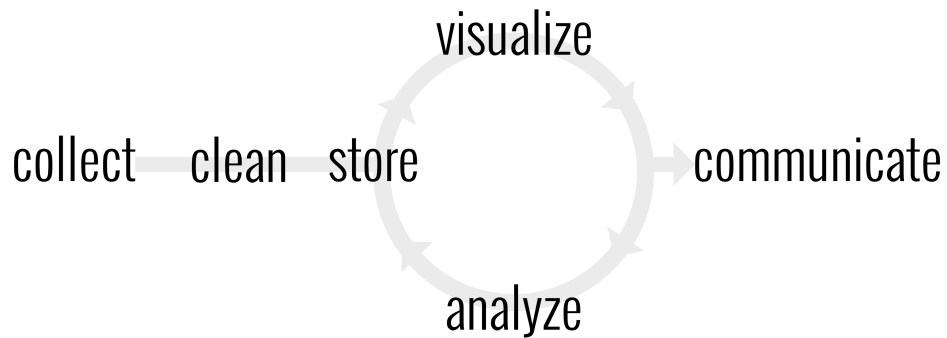
ANALYZING

DATA

COMMUNICATING

DATA

DATA WORKFLOW



THE <https://carpentries.org/>
CARPENTRIES

| | |
|-----------------|---|
| SPREADSHEETS | http://www.datacarpentry.org/spreadsheet-ecology-lesson/ |
| DATABASES | http://www.datacarpentry.org/sql-ecology-lesson/ |
| VERSION CONTROL | http://swcarpentry.github.io/git-novice/ |
| AUTOMATION | http://swcarpentry.github.io/make-novice/ |

PAPERS

| | |
|--|---|
| EXCUSE ME, DO YOU HAVE A MOMENT TO TALK ABOUT VERSION CONTROL? | https://doi.org/10.7287/peerj.preprints.3159v2 |
| DATA ORGANIZATION IN SPREADSHEETS | https://doi.org/10.1080/00031305.2017.1375989 |
| VALIDITY: ON THE MEANINGFUL INTERPRETATION OF ASSESSMENT DATA | https://doi.org/10.1046/j.1365-2923.2003.01594.x |
| RELIABILITY: ON THE REPRODUCIBILITY OF ASSESSMENT DATA | https://doi.org/10.1111/j.1365-2929.2004.01932.x |