Course 5: Reproducible Research

Analytic CODE

```
┌──────────┐        ┌──────────┐        ┌──────────────┐
│ measured │   →    │ Analytic │   →    │ Computational│
│ data     │        │ Data     │        │ Results      │
└──────────┘        └──────────┘        └──────────────┘
```

Processing CODE

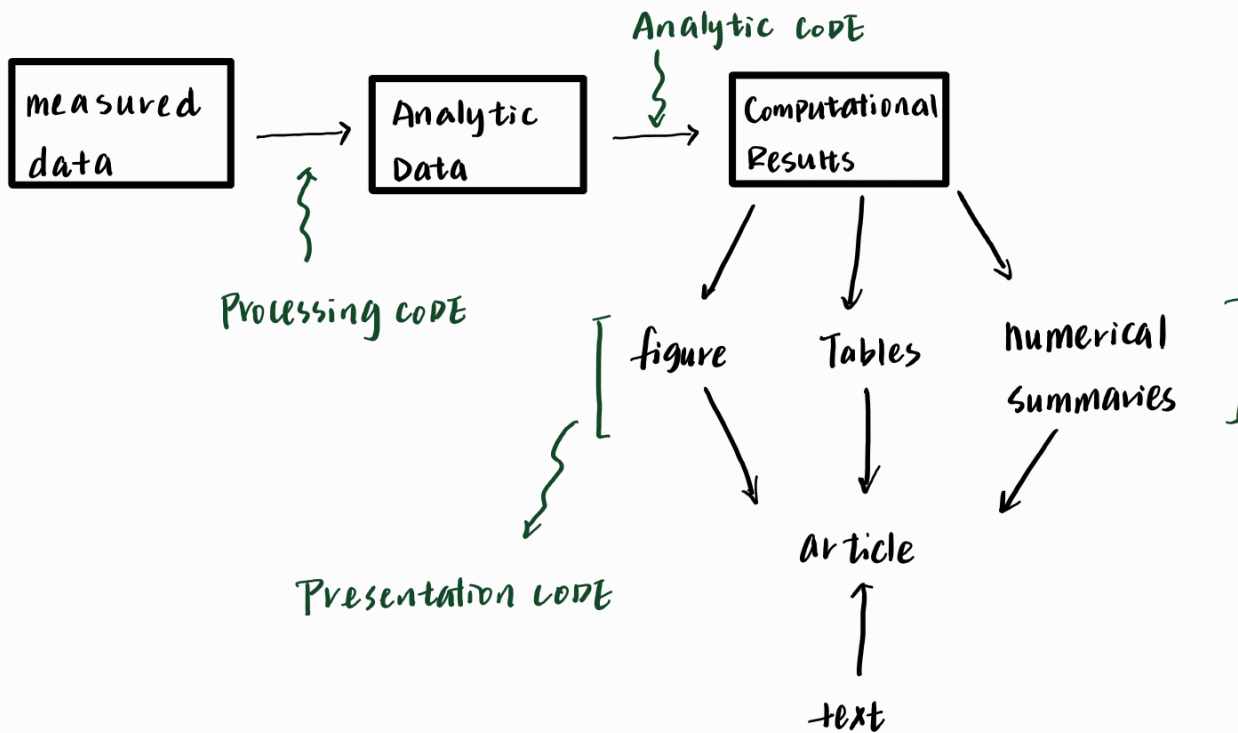figure   Tables   numerical summaries

Presentation CODE

Article

text

ⓜ clean the Data

    // Raw data often needs to be Processed

    // if it is Pre - Processed, make Sure you understand how

    // understand the source of the data

    // may need reformating, sub Sampling

    // Determine if the data are good enough - if not, quit or

    change Data.

⑩ R markdown

- /// Italics   * text *

- // Bold   ** text **

- // link   [link] (...)

⑩ " Cache = TRUE " Can be set on a chunk by chunk basis to store

results of Computation.

✓

⑩ RPubs

⑩ Always set seed !

⑩ Reproducible Research

- Re- Run the analysis ; check result match

- Check the code for bugs / errors

- Try alternate approaches ; check Sensitivity