# The outputs of a data science experiment

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# Some of the most common output from a data science experiment

- 1. Reports
- 2. Presentations
- 3. Interactive web pages
- 4. Apps

## Ideally reports given to you will be

- Clearly written
- Involve a narrative around the data
  - Creation of analytic dataset
  - Analysis
- Concise conclusions
- Omit unnecessary details
- Reproducible

### Same exact criteria for presentations:

- Clear
- Involve a narrative around the data
  - Creation of analytic dataset
  - Analysis
- Concise conclusions
- Omit unnecessary details
- Reproducible

# Apps and web pages

- Easy to use
- Help pages or documentation
- Code should be documented well
- Code should be version controlled

#### Example Apps and producs

shinyapps.io

#### ENAR 2014 searcher



Day	Session Name	Title	Location	Time	Add
Sunday, March 16	1. invited poster session	1a. sublime and oasis for multiple sclerosis lesion segmentation in structural mri elizabeth m. sweeney*, johns hopkins bloomberg school of public health russell t. shinohara, university of pennsylvania ciprian m. crainiceanu, johns hopkins bloomberg school of public health	Grand Ballroom (3rd Floor)	8:00	Add to my Google calendar
Sunday, March 16	1. invited poster session	1b. elastic statistical shape analysis of 3d objects using square root normal fields sebastian kurtek*, the ohio state university	Grand Ballroom (3rd Floor)	8:00	Add to my Google calendar
Sunday, March 16	1. invited poster session	1c. epidemiological models for browser-based malware natallia katenka*, university of rhode island eric kolaczyk and mark crovella, boston university tom britton, stockholm university	Grand Ballroom (3rd Floor)	8:00	Add to my Google calendar
Sunday, March 16	1. invited poster session	1d. meta-analysis of rare variants based on single-variant statistics yijuan hu*, emory university sonja i. berndt, national cancer institute, national institutes of health stefan gustafsson and andrea ganna, uppsala university hospital joel hirschhorn, boston childrens hospital kari e. north, university of north carolina, chapel hill erik ingelsson, uppsala university hospital danyu lin, university of north carolina, chapel hill	Grand Ballroom (3rd Floor)	8:00	Add to my Google calendar
Sunday, March 16	1. invited poster session	1e. spatial quantile regression for neuroimaging data linglong kong*, university of alberta hongtu zhu, university of north carolina, chapel hill	Grand Ballroom (3rd Floor)	8:00	Add to my Google calendar
Sunday,	1. invited poster session	1g. disease surveillance using dynamic screening system peihua qiu*, university of florida	Grand	8:00	Add to

#### Syrian refugee crisis



18-59

Percent in each age group

