

### Welcome

- Multiple Reports
- Ordering validation elements
- Adding and removing users

## MULTIPLE REPORTS

### {valtools} Reports

Key stake holders may not be programers

Not all stakeholders need a full report

### Managing multiple reports

- Requirements report confirming with key stakeholders expectations
- Validation report Runs code and versions outputs
- validation.yml
  - Controls which report is run
  - Output location

### Validation Report Rendering



- Valtools::vt\_validate\_report()
  - Automatically runs report
  - Versions and Dates
  - Runs in fresh R session

### vt\_validate\_report Behavior

```
package: sample.package
working_dir: vignettes
output_dir: inst
report_rmd_name: Requirement_Adoption.Rmd
report_naming_format: Requirement_Adoption_Report_{package}_v{version}_{date}

Fusernames:
```

- output\_dir
- report\_rmd\_name
- report\_naming\_format

## VALIDATION ELEMENT ORDERING

### Ordering options

 Requirements, Test Cases and Test Code are developed over time

Order/Importance of each changes over time

# Given Set of Requirements, How would you order them?

Numeric Vector Expectations

Data Ingestion Expectations

Character Vector Expectations

Data Writing Expectations

### Ordering options

- Updating Requirements and Validation Reports by hand
  - Ensure order matches across updates
  - If any numbering impacted, need to update

### Ordering options

- vt\_get\_child\_files(loc="yml")
  - Vector of files in order of yml
- vt\_file()
  - Serialized across vectors

## USERS ACROSS TIME



### interactive prompting from vt\_use\_\*()

```
> vt_use_reg("requirement_001")
Item created:requirements/requirement_001.md
User 'ehhughes' does not exist in the config file
Add user to config file?
[Y/n]: Y
Please supply some information for recording users within the package.
Note, that this information can be updated at any time though
`vt_add_user_to_config()`
Please provide the name of the person associated with the username
 `ehhughes` and press `Enter`.
Name: Ellis Hughes
Please provide the title of the person associated with the username
'ehhughes' and press 'Enter'.
Title: Programmer
Please provide the role of the person for this validation associated with
the username 'ehhughes' and press 'Enter':
Role: Requirements Writer
User `ehhughes` added to validation config file.
Filename(s): requirement_001.md added to validation config file.
  Modify 'C:/Users/ehhughes/Documents/Projects/R PACKAGE VALIDATION FRAMEWORK/test1234/vio
```

#### Validation Users

```
package: sample.package
    working dir: vignettes
    output dir: inst
    report rmd name: Requirement Adoption.Rmd
    report naming format: Requirement Adoption Report {package} v{version} {date}
    ⊟usernames:
    a user:
      name: A user
 9
     title: Programmer
10
        role: Validation Lead
11
   b user:
12
       name: B user
13
       title: Manager
14
        role: Requirement Author
15
   user b:
16
      name: Val A Dashun
17
     title: Programmer II
18
        role: Tester
```

### Validation Team Recording options

vt\_add\_user\_to\_config()

vt\_drop\_user\_from\_config()

### COMPLETE

EXERCISE 06