

Welcome

- Adding Test Cases
- Adding Test Code
- Validation Reports in R packages

VALIDATION ELEMENTS

Test Cases - vt_use_test_case()

- Key Arguments
 - o name,
 - username
- Name requirement name
- Username Person's name writing test case

Test Cases - vt_use_test_case()

```
Requirement_001.md × Test_Case_001.md
                                                             Preview 🕶 🜣 🕶
    #' @title Test_Case_001
    #' @editor Ellis Hughes
     #' @editDate 2021-10-14
    #' @coverage
    #' TESTCASE: REQUIREMENT
  6
    + Setup: DOCUMENT ANY SETUP THAT NEEDS TO BE DONE FOR TESTING
  9
    + Start documenting test case here!
 11
 11:1
                                                                            Markdown
```

Test Code - vt_use_test_code()

- Key Arguments
 - o name,
 - username
- Name requirement name
- Username Person's name writing test code

Test Code - vt_use_test_code()

```
Test_Code_001.R

    Test_Case_001.md 

    ✓

Requirement_001.md 🔀
                                                                                          Run Tests
      # Test setup
     #' @editor Ellis Hughes
      #' @editDate 2021-10-14
  7 ▼ test_that("TESTNUMBER", {
        #TEST CODE HERE
  8
 10 - })
 11
 12
 13
 13:1
       (Top Level) •
                                                                                                  R Script
```

VALIDATION REPORT

Report basics

- Parse each requirement and test case file
- Evaluate and capture test code results and print

{valtools} Reports

- Reports are Rmd and therefore infinitely customizable
- Provided many helper functions with valtools
 - Environment
 - Scraping Validation information
 - Recording News, etc

Rendering Reports

- vt_validate_report() executes the Rmd and saves output
- Serves as "snapshot" in time
- Rmd result from validation to output location

COMPLETE

EXERCISE 5

Navigate to Materials/Materials-05-Validation_Report