



R PACKAGE DEVELOPMENT AND VALIDATION

The Validation Report

Welcome

- Validation Reports in R packages



VIGNETTE VALIDATION

{valtools} Reports

- Reports are Rmd and therefore infinitely customizable
- Outputs of Rmd from validation to live in new output location
- Serves as “snapshot” in time of package state

Validating

- `vt_validate_report()` executes the Rmd and saves output
 - Assumes package is installed in most current state
- `vt_validate_source()` temporarily installs the package and executes the validation Rmd

Validation Behavior

- Which report, location of output, and output name controlled by the validation.yml
 - report_rmd_name
 - output_dir
 - report_naming_format



INCLUDED TEMPLATES

Requirement Adoption Report

- Signature table looks for users with roles “Validation Lead” and “Tester”, case-insensitive. At least one must be present via `validation.yml/vt_add_user_to_config()`
- Only includes Requirement child files by looking for filenames with “req”. Ordering is alphabetical.

Validation Report

- All users are added to signature table
- Adds authorship tables for Requirements, Test Case, Test Code, and Functions
- Adds traceability matrix
- Includes all child files via vt_get_child_files()



ADVANCED USAGE

Customization options

- Modify the report RMD generated via template
- Write a report RMD from scratch
- Propose a new template via {valtools} issue/PR
- Switch between multiple RMDs by updating validation.yml as the project cycles through adoption and validation phases



MATERIALS 04-E2

[Materials/Materials-04-Introduction_to_Valtools/Materials-04-E02-Validation_Report](#)