



# R PACKAGE DEVELOPMENT AND VALIDATION

## Validation Modes

# Welcome

- Modes of R Package Validation
  - Source
  - Build
  - Install
  - Re-validation



SOURCE

# vt\_validate\_source()

- Temporarily installs the package and executes the validation Rmd
- For release of source code
- Users have access to install as necessary
- Report can be generated at any time



BUILD

# vt\_validate\_build()

- Temporarily installs the package and executes the validation Rmd
- Copies contents into “output” directory – inst/validation
- Builds source code, includes all components of validation into tarball
- For release of source code with controlled versions
- Users have access to install as necessary



INSTALL

# vt\_validate\_install()

- Temporarily installs the package and executes the validation Rmd
- Copies contents into “output” directory – inst/validation
- Builds source code, includes all components of validation into tarball
- Installs and runs validation report on installed system
- Installation is controlled by Administration
- Validation Report needs to be saved to a specific location





# RE-VALIDATION

# vt\_validate\_installed\_package()

- ONLY works for packages installed via `vt\_validate\_install()` or installed from tarball created by `vt\_validate\_build()`
- Installed environment has changed, but package has not
- Installation is controlled by Administration
- Users have access to install as necessary



# MATERIALS 04-E3

[Materials/Materials-04-Introduction\\_to\\_Valtools/Materials-04-E03-Validation\\_Modes](#)