

#### Welcome

- Modes of R Package Validation
  - 3<sup>rd</sup> party
  - Source
  - Install
  - Re-validation
  - Build

### THIRD PARTY

### vt\_validate\_report()

- Uses only packages already installed on system
- Report can be generated at any time
- Best for: validation of packages the org is consuming but not developing

### 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
- Best for:
  - Checking validation during package development
  - c.i. integration
  - Sending report PDFs to a shared drive location

## 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
- Best for:
  - Installation is controlled by IT Administration
  - Validation Report needs co-located with installed package

### RE-VALIDATION

### vt\_validate\_installed\_package()

- ONLY works for packages installed via `vt\_validate\_install()` or installed from tarball created by `vt\_validate\_build()`
- Run when environment has changed, but installation has not
- Best for:
  - Installation is controlled by IT Administration
  - Users who need to verify that environment changes does not affect validation performance

# Modes of Validation & Validation Report Generation

- vt\_validate\_report() Also for validation packets
- vt\_validate\_source() Intended for internal packages
- vt\_validate\_build()
- vt\_validate\_install()
- vt\_validate\_installed\_package()

### COMPLETE

EXERCISE 06