

Whoami

Metrum Research Group

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R Packages

- **What:** Bundled script to reproduce analysis
 - Code
 - Data
 - Documentation
 - Tests
- **Why:** Promotes collaboration across researchers
- **Added Value:** Consistent help documentation format

Structure

- **DESCRIPTION** : Package Metadata
- **NAMESPACE** : Manages how the packages interacts with other packages
- **R/** : script
- **man/** : documentation (Rd files)
- **data/** : data
- **tests/** : unit tests

Rxygen2

Rxygen2

- You do not have to manually write the Rd files that are needed to populate the man subdirectory.
 - The documentation is in the same place as the object that it is describing.
- You do not have to manually maintain the NAMESPACE file.
 - Namespacing for the object is part of the documentation.

High Bars

- You have to understand and track what are the depends, imports and suggests of the package.
 - `@import` and `@importFrom`
- You have to keep a consistent documentation layout across functions.
 - `@params`, `@examples`
- You have to manage links across packages
 - `@seealso`

Juggling Act

- - e.g. using another package, add a formal argument
- - update `@params`, `@imports`, `@importFrom`

Sinew

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<https://cran.r-project.org/web/packages/sinew/index.html>

<https://www.github.com/metrumresearchgroup/sinew>

<https://metrumresearchgroup.github.io/sinew/>

Package Goal

- automate nearly all of the manual tasks needed to document functions
- properly set up the import fields for oxygenation
- make it easier to attain documentation consistency across functions and packages.
- change and append updated parameters, definitions, namespaces to existing documentation

Sinew Workflow Example