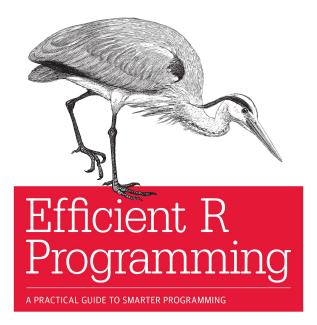
And you thought CRAN was harsh

Colin Gillespie (@csgillespie)

O'REILLY®



Colin Gillespie & Robin Lovelace

About Me Co-Founder: Jumping Rivers





The problem

Lack of standards

We have the nine rings

But not "one ring to rule them all"

For no good reason I've decided to shoehorn in movie references Add in chat when you spot one

But what about CRAN!

I hear you say



But what about CRAN!

I hear you say

Those aren't standards



But what about CRAN!

I hear you say

Those aren't standards

These are standards



Guardian & Observer Style Guide

a-ha

band from Norway; **A-ha!** Alan Partridge catchphrase, quoting Abba's Knowing Me, Knowing You





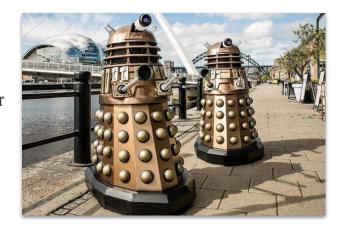
Guardian & Observer Style Guide

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Dalek

takes initial cap, whether used literally (as in referring to Doctor Who), or figuratively (as in describing, say, your boss)



Guardian & Observer Style Guide

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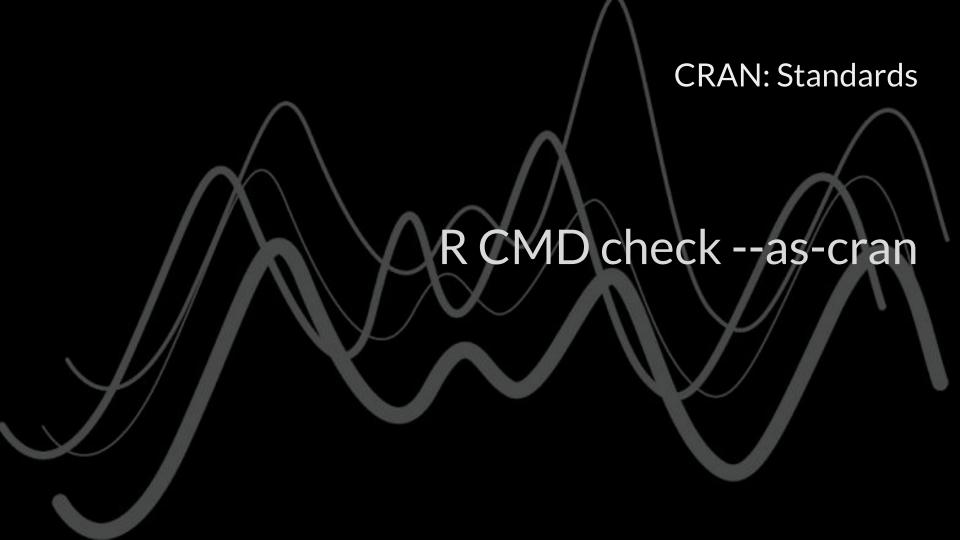
Dalek

takes initial cap, whether used literally (as in referring to Doctor Who), or figuratively (as in describing, say, your boss)

data

takes a singular verb (like agenda), though strictly a plural; you come across datum, the singular of data, about as often as you hear about an agendum







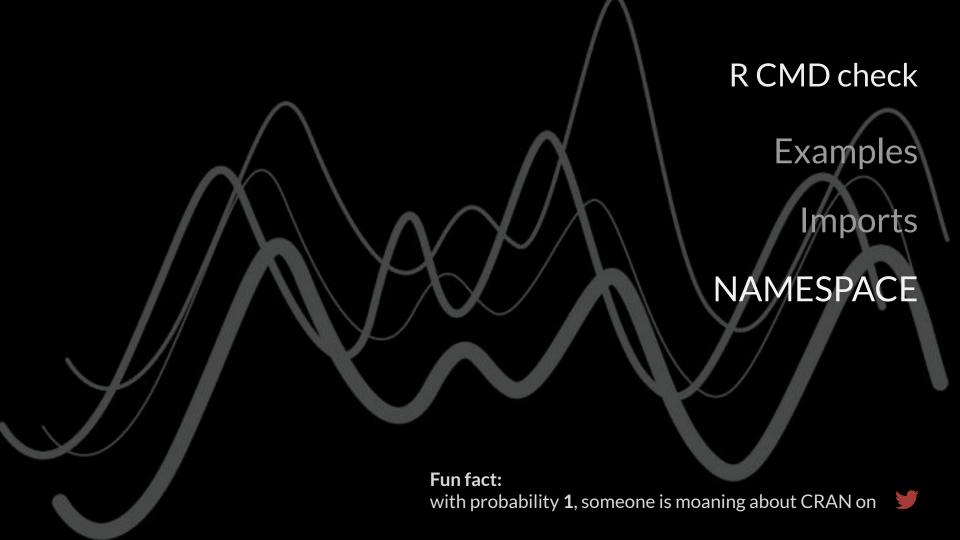
YOU SHALL NOT PASS!

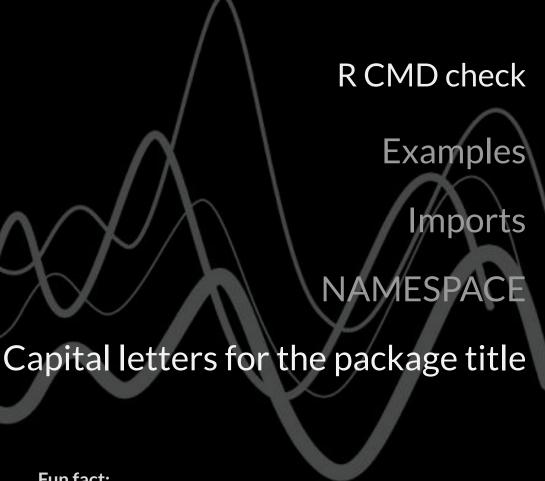
If this is CRAN, that means we're...

YOU SHALL NOT PASS!









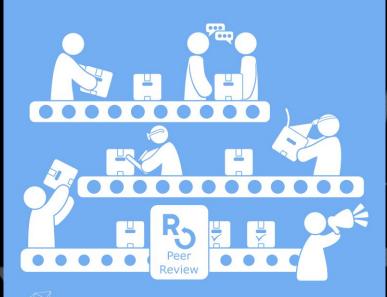
Fun fact:

with probability 1, someone is moaning about CRAN on

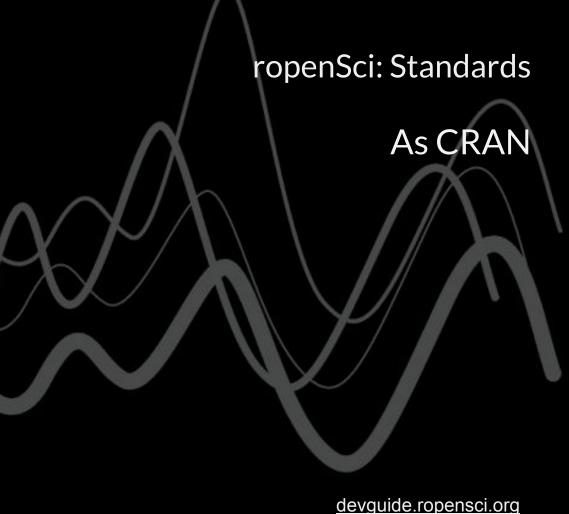


rOpenSci Packages

Development, Maintenance, and Peer Review

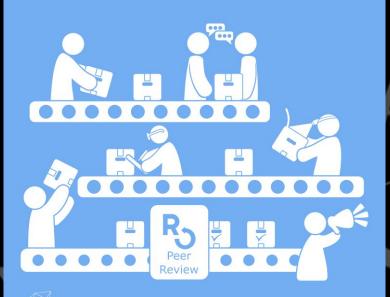






rOpenSci Packages

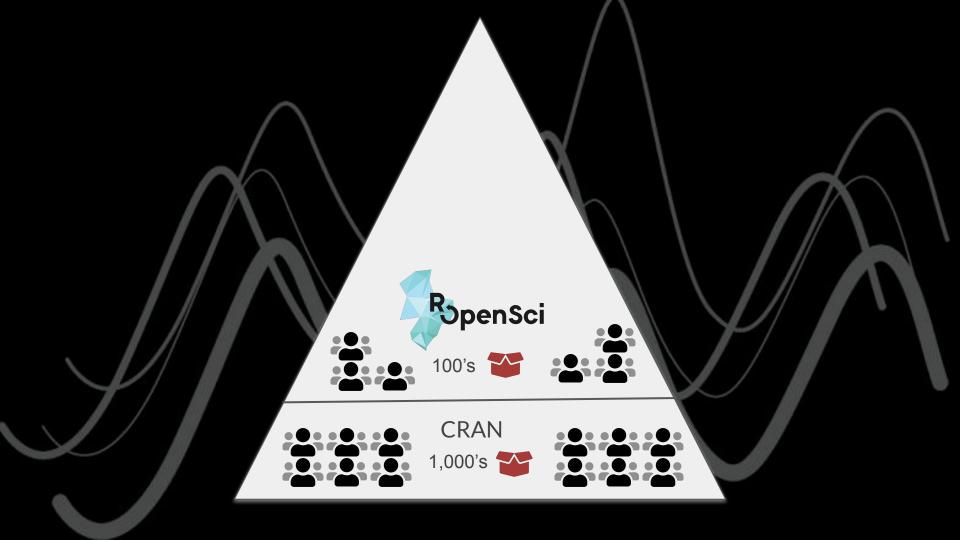
Development, Maintenance, and Peer Review

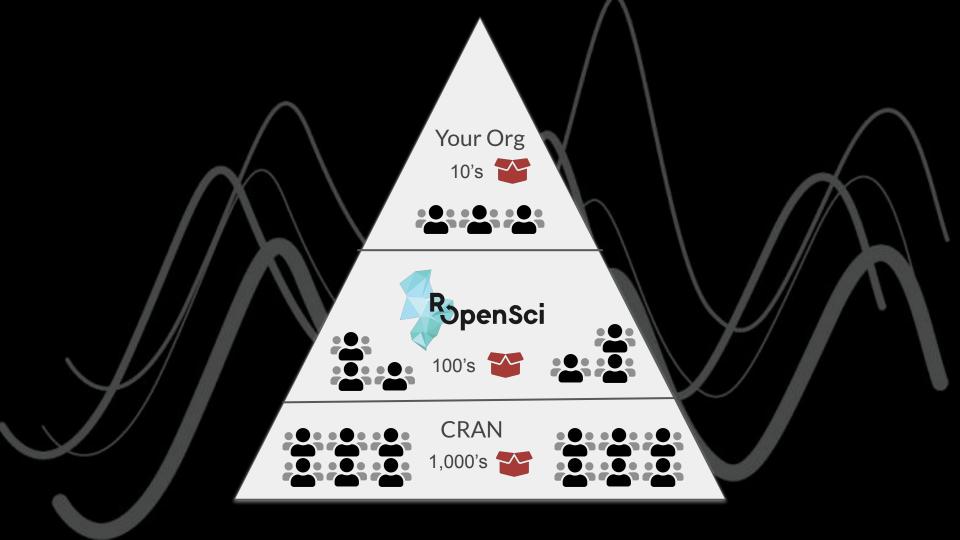


ropenSci: Standards As CRAN Improved documentation Testing

devguide.ropensci.org







My thoughts on checks

If they exist, they should be followed

This needs to be enforced



"We" are hopeless

Get a computer to check everything

Continuous Integration











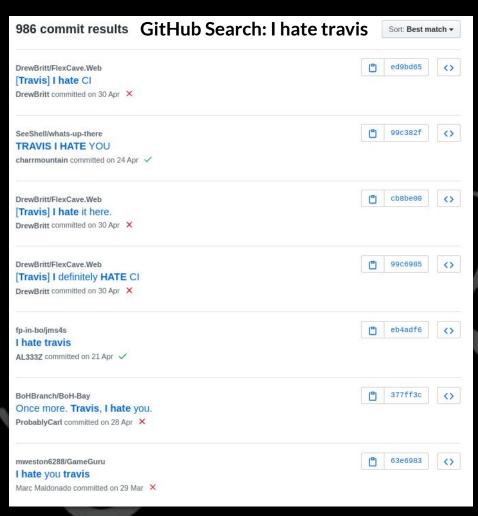




Continuous Integration

A series of tests you have to pass





Continuous Integration

A series of tests you have to pass

On failing, users scream

Traaaaaaaaaavisssssssss*

*This counts as a movie reference

@ Jumping Rivers

~30 teaching packages: tidyverse, shiny, git, docker, ...

~10 infrastructure packages: VMs, questionnaires, ...

~30 client packages

@ Jumping Rivers

Multiple authors

Different levels of experience

- R CMD check should give 0 NOTES & WARNINGS
 - Unless explicitly stated

- R CMD check should give **0 NOTES & WARNINGS**
 - Unless explicitly stated

```
# travis.yml
env:
```

global:

- ALLOWED_WARNINGS=0
- ALLOWED_NOTES=0

- Imports should use importFrom, not import
 - Unless explicitly stated

```
# travis.yml
env:
    global:
        - NO_IMPORTS=0
```

Lint checks on code & filenames

Lint checks on code & filenames

DESCRIPTION file - use_tidy_description

Lint checks on code & filenames

DESCRIPTION file - use_tidy_description

Version must be always updated

Version must be of a form: X.Y.Z or X.Y.Z.900W

Version must be of a form: X.Y.Z or X.Y.Z.900W

Minimum standards in .gitignore

Version must be of a form: X.Y.Z or X.Y.Z.900W

Minimum standards in .gitignore

All files must end with a line break

```
— Checking lint...check_lintr()

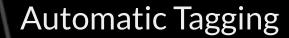
✓ Lint looks good
    — Checking namespace for imports()...check_namespace()
    ✓ Imports look good - 4 found, 4 allowed
    — Checking file extensions...check_r_filenames()

✓ Extensions look good
941

✓ Filenames look good

    — Checking version...check_version()
    ✓ Version looks good
    — Checking .gitignore...check_gitignore()
    ✓ .gitignore looks good
    — Checking tidy descriptions...check_tidy_descriptions()
    Setting active project to '/home/travis/build/jr-packages/jrNotes'
    ✓ Your description is tidy!
    — Checking file permissions...check_file_permissions()

✓ File modes looks good
```



```
1078 — Creating a tag...create_tag()
1079 To https://github.com/jr-packages/jrTidyverse.git
1080 * [new tag] v0.1.11 -> v0.1.11
1081 ✓ Tagging good
```

Summary

Standards are good

Standards should be strict

Summary Standards are good Standards should be strict

No-one reads standards

Jumping Rivers

RStudio certified partners

Training: R & Python

Infrastructure setup and maintenance

Al and machine learning!

Thank-you