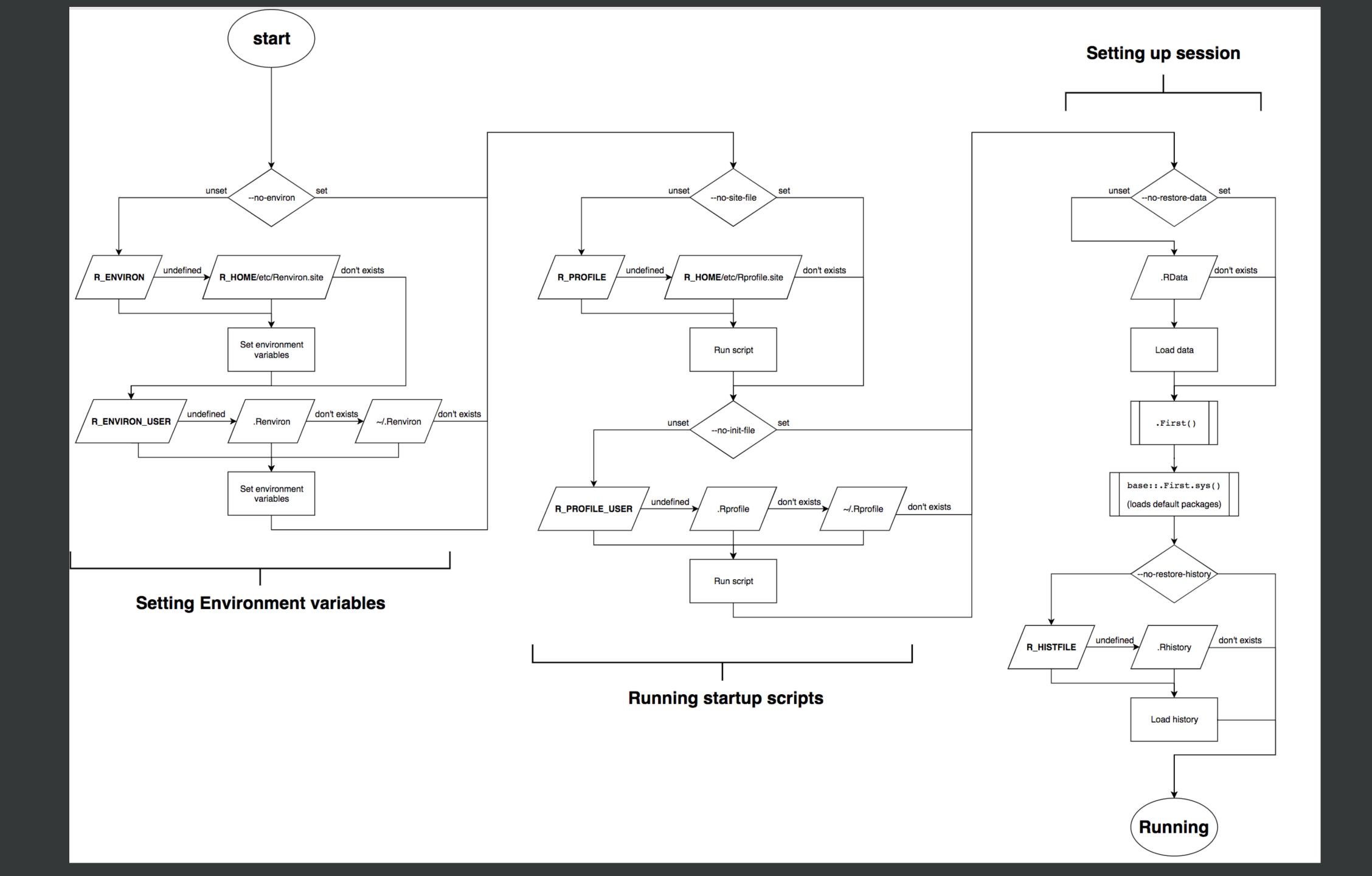
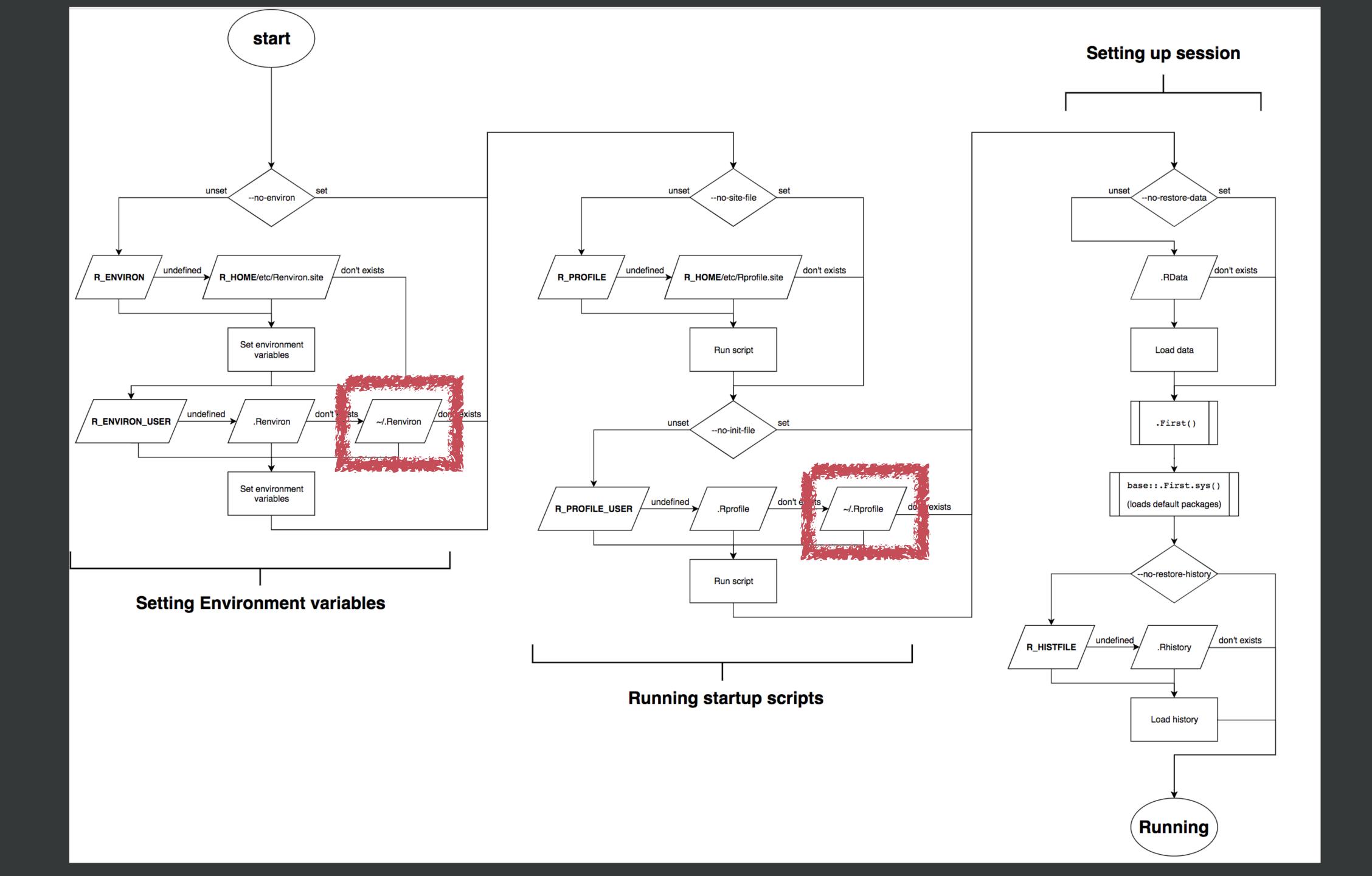


https://whattheyforgot.org/r-startup.html





Dotfiles

https://dotfiles.github.io/

.Renviron

.Rprofile

GitHub search for filename:. Rprofile.

.Renviron

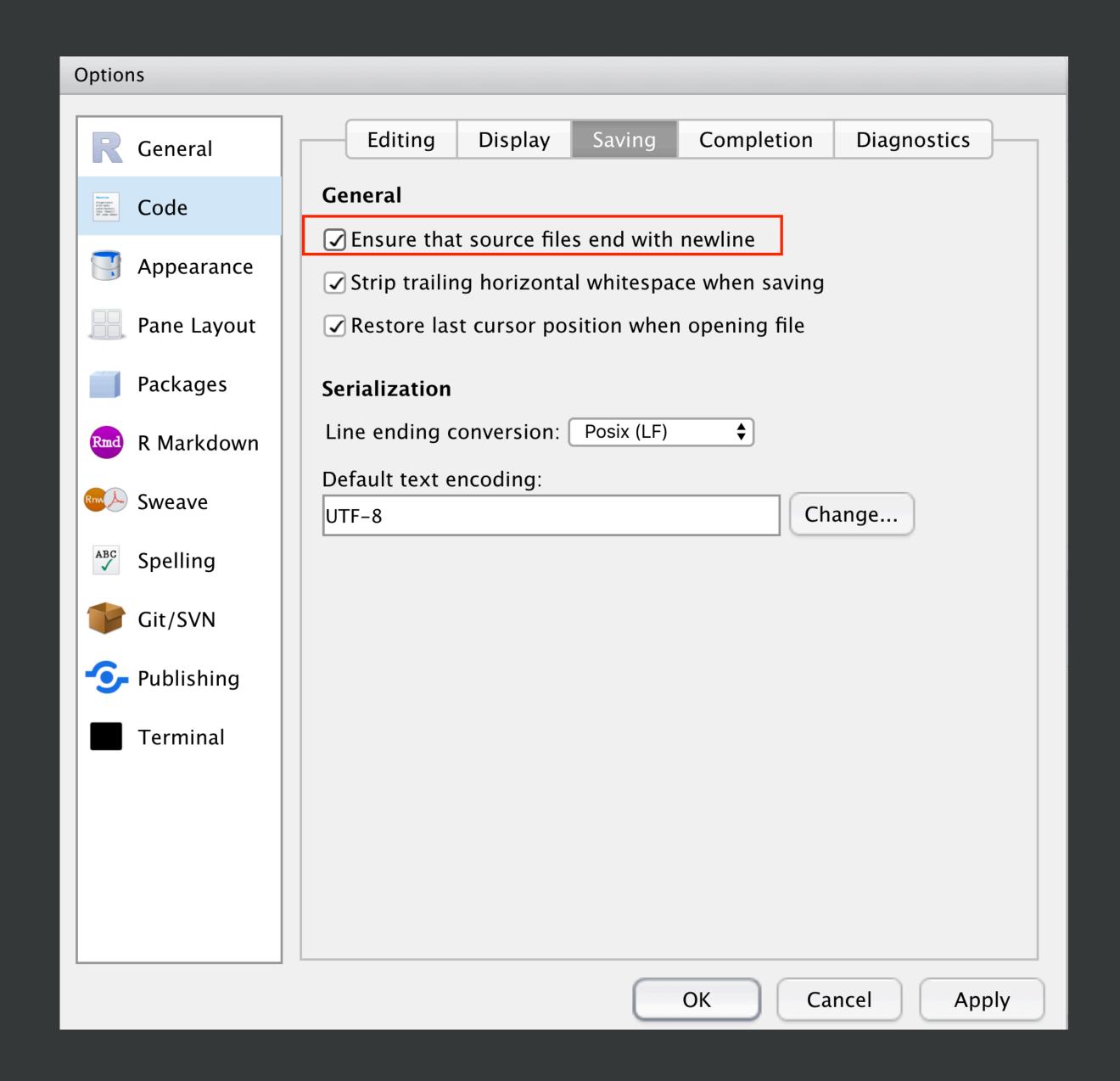
R specific environment vars

API keys

not R code

R_HISTSIZE=100000
GITHUB_PAT=abc123
R_LIBS_USER=~/R/%p/%v

1. Renviron and .Rprofile mustendina newline!



usethis::use_course("bit.ly/r-startup-2020-01")

Pick one to open and flesh out:

01_startup_spartan.R

01_startup_comfy.R*

* worst case, there's always jim

.Rprofile

use for helpers you use interactively

runs on every session

Things to put in .Rprofile

- Set a default CRAN mirror
- Write a welcome message
- Customize R prompt
- Selectively change (but be careful)
 - Options, screen width, numeric display
 - Load frequently used interactive packages
 - Aliases / shortcuts for frequently used functions

Common pitfalls

```
options(stringsAsFactors = FALSE)
library(tidyverse)
library(ggplot2)
f <- dplyr::filter
theme_set(theme_bw())</pre>
```

If something appears in a script, should *not* be in .Rprofile

Could go in .Rprofile

```
library (usethis)
library (devtools)
# Not if used in scripts!
s <- summary
h <- utils::head
```

```
options(repos = c(CRAN = "https://cran.rstudio.org"))
if (interactive()) {
  options(width = 120)
}
```

usethis::use_course("bit.ly/r-startup-2020-01")

Pick one to open and flesh out:

02_startup_spartan.R

02_startup_comfy.R*

* worst case, there's always jim

Kara's . Rprofile

```
options (
  repos = c(
    CRAN = "https://cloud.r-project.org",
    Sage = "http://ran.synapse.org"
  warnPartialMatchArgs = TRUE,
  warnPartialMatchDollar = TRUE,
  warnPartialMatchAttr = TRUE,
  useFancyQuotes = FALSE,
  browserNLdisabled = TRUE,
  usethis.full name = "Kara Woo",
 menu.graphics = FALSE
```

```
if (interactive()) {
    suppressMessages(require(devtools))
    suppressMessages(require(usethis))
    suppressMessages(require(testthat))
    suppressMessages(require(reprex))
}
```

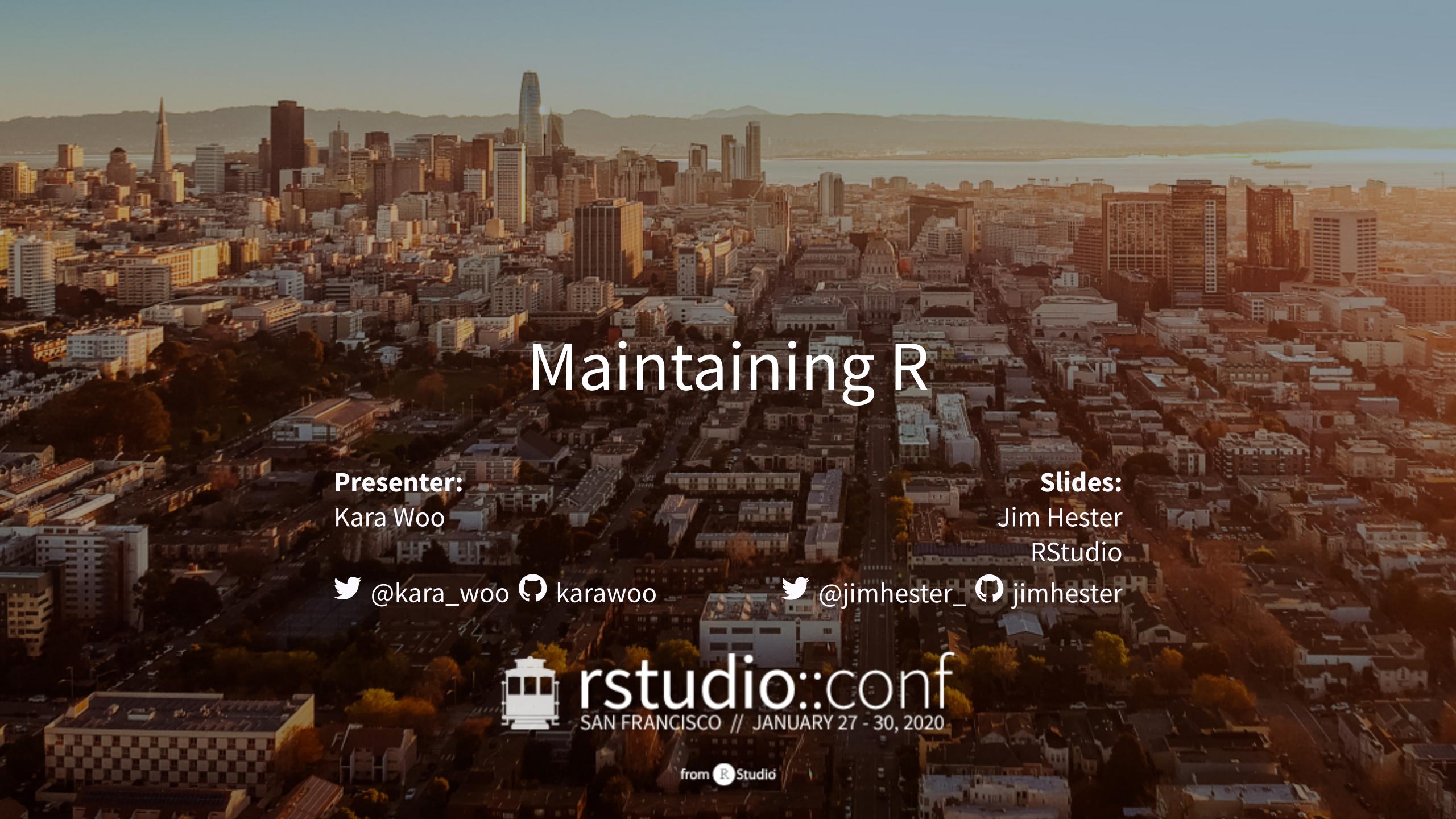
When I'm feeling whimsical

.Rprofile inspiration



8:36 AM · Jan 11, 2020 · TweetDeck

<u>See replies</u>



https://whattheyforgot.org/maintaining-r.html

RStudio: upgrading packages

Update Packages							
	Package	Installed	Available	NEWS			
	ape	5.1	5.2	2000 2000			
	BiocManager	1.30.1	1.30.2	X23			
	conflicted	0.1.0.9000	1.0.0	XXX 2222			
✓	doParallel	1.0.11	1.0.14	X-02 2002			
	ggridges	0.5.0	0.5.1	XC2 222			
✓	igraph	1.1.0	1.2.2	¥23			
	magic	1.5-8	1.5-9	XC2 2222			
✓	mockery	0.4.1	0.4.1.1	X-02			
	pROC	1.12.1	1.13.0	X.00 2002			
	rematch2	2.0.0.9000	2.0.1	X03			
	sm	2.2-5.5	2.2-5.6	X C2			
Se	lect All Select Nor	ne	Install Updates	Cancel			

Upgrading packages

```
install.packages("pkgname")
devtools::upgrade_packages("pkgname")
```

devtools will upgrade dev packages too

Upgrading all packages

Update Packages								
	Package	Installed	Available	NEWS				
•	ape	5.1	5.2	3000 3000				
•	BiocManager	1.30.1	1.30.2	200				
•	conflicted	0.1.0.9000	1.0.0	200				
✓	doParallel	1.0.11	1.0.14	XXX 3333				
•	ggridges	0.5.0	0.5.1					
•	igraph	1.1.0	1.2.2	XXX				
•	magic	1.5-8	1.5-9	XC0				
✓	mockery	0.4.1	0.4.1.1	7.77 2.72 2.72				
✓	pROC	1.12.1	1.13.0	XXX XXX				
✓	rematch2	2.0.0.9000	2.0.1	200 200 200				
	sm	2 2-5 5	2 2-5 6	303				
Se	lect All Select Non	Install Updates	Cancel					

devtools::upgrade_packages(TRUE)

Downgrading packages

devtools: Tools to Make Developing R Packages Easier

Collection of package development tools.

Version: 1.13.6Depends: $R (\geq 3.0.2)$

Imports: $\underline{\text{httr}} \ (\geq 0.4)$, utils, tools, methods, $\underline{\text{memoise}} \ (\geq 1.0.0)$, $\underline{\text{whisker}}$, $\underline{\text{digest}}$, $\underline{\text{rs}}$ Suggests: $\underline{\text{curl}} \ (\geq 0.9)$, $\underline{\text{crayon}}$, $\underline{\text{testthat}} \ (\geq 1.0.2)$, $\underline{\text{BiocInstaller}}$, $\underline{\text{Rcpp}} \ (\geq 0.10.0)$, $\underline{\text{N}}$

Published: 2018-06-27

Author: Hadley Wickham [aut], Jim Hester [aut, cre], Winston Chang [aut], RS

Maintainer: Jim Hester <james.hester at rstudio.com>
BugReports: https://github.com/r-lib/devtools/issues
License: GPL-2 | GPL-3 [expanded from: GPL (≥ 2)]

URL: https://github.com/r-lib/devtools

NeedsCompilation: no

Materials: README NEWS
CRAN checks: devtools results

Downloads:

Reference manual: <u>devtools.pdf</u>

Vignettes: <u>Devtools dependencies</u>
Package source: <u>devtools 1.13.6.tar.gz</u>

Windows binaries: r-devel: devtools 1.13.6.zip, r-release: devtools 1.13.6.zip, r-oldrel: devtools 1.13.6.zip

OS X binaries: r-release: <u>devtools 1.13.6.tgz</u>, r-oldrel: <u>devtools 1.13.6.tgz</u>

Old sources: <u>devtools archive</u>

google: cran devtools

old sources: devtools archive

Transferring libraries across R versions

OK If patch: 3.5.0 -> 3.5.1

NOT OK If minor: 3.4.3 -> 3.5.0

Have R handle automatically

MacOS: R_LIBS_USER=~/Library/R/%v/library

Win: R_LIBS_USER=~/R/win-library/x.y

```
fs::dir_create(Sys.getenv("R_LIBS_USER"))
```

```
# Install new version of R (lets say 3.5.0 in this example)
# and install fs and tibble packages
install.packages(c("fs", "tibble"))
# Create a new directory for the version of R
fs::dir create("~/Library/R/3.5/library")
# Re-start R so the .libPaths are updated
# Lookup what packages were in your old package library
pkgs <- installed.packages("~/Library/R/3.4/library") %>%
               tibble::as tibble()
# Filter these packages as needed
# Install the packages in the new version
install.packages(pkgs$Package)
```