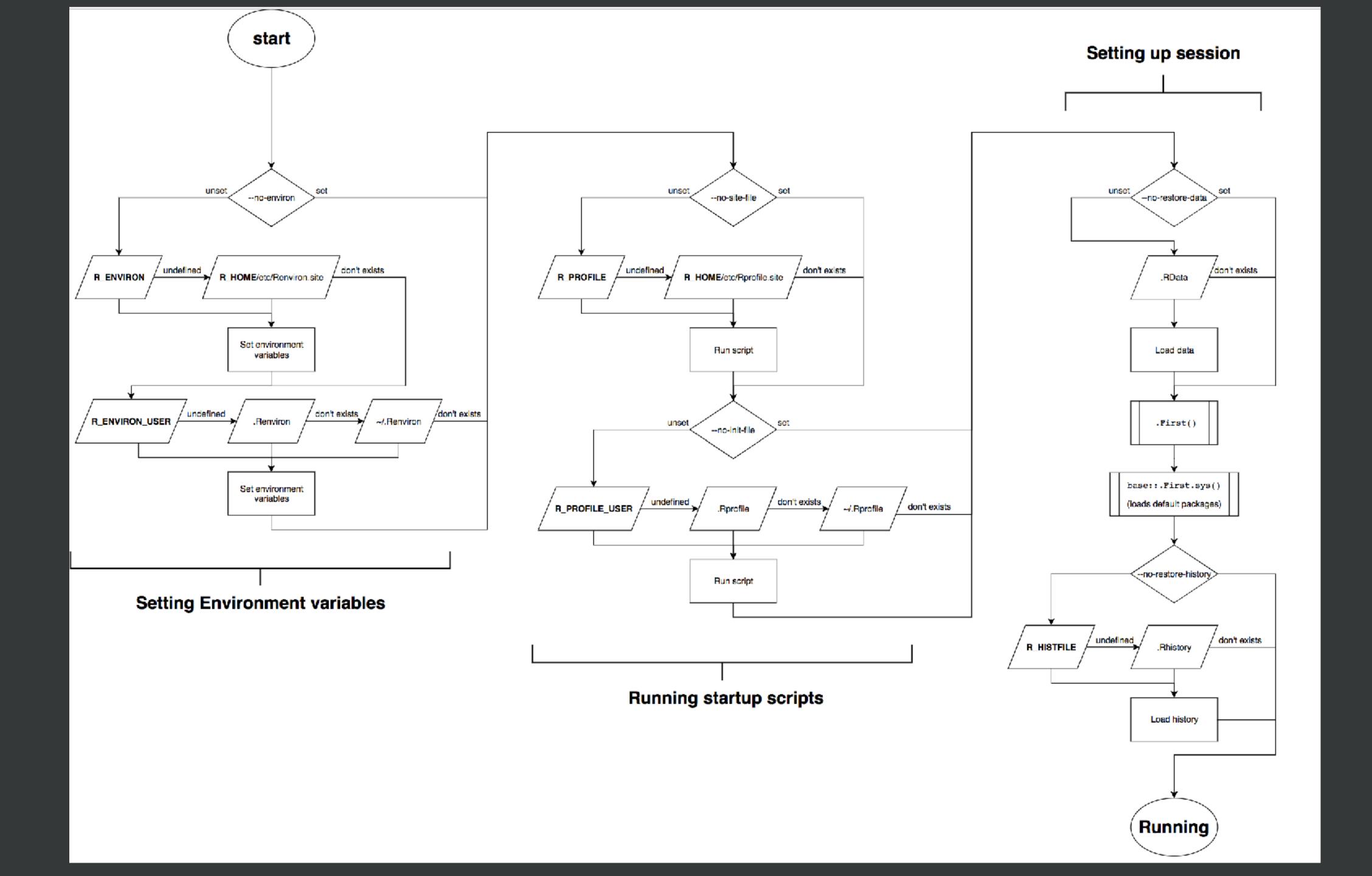
R Startup / configuration

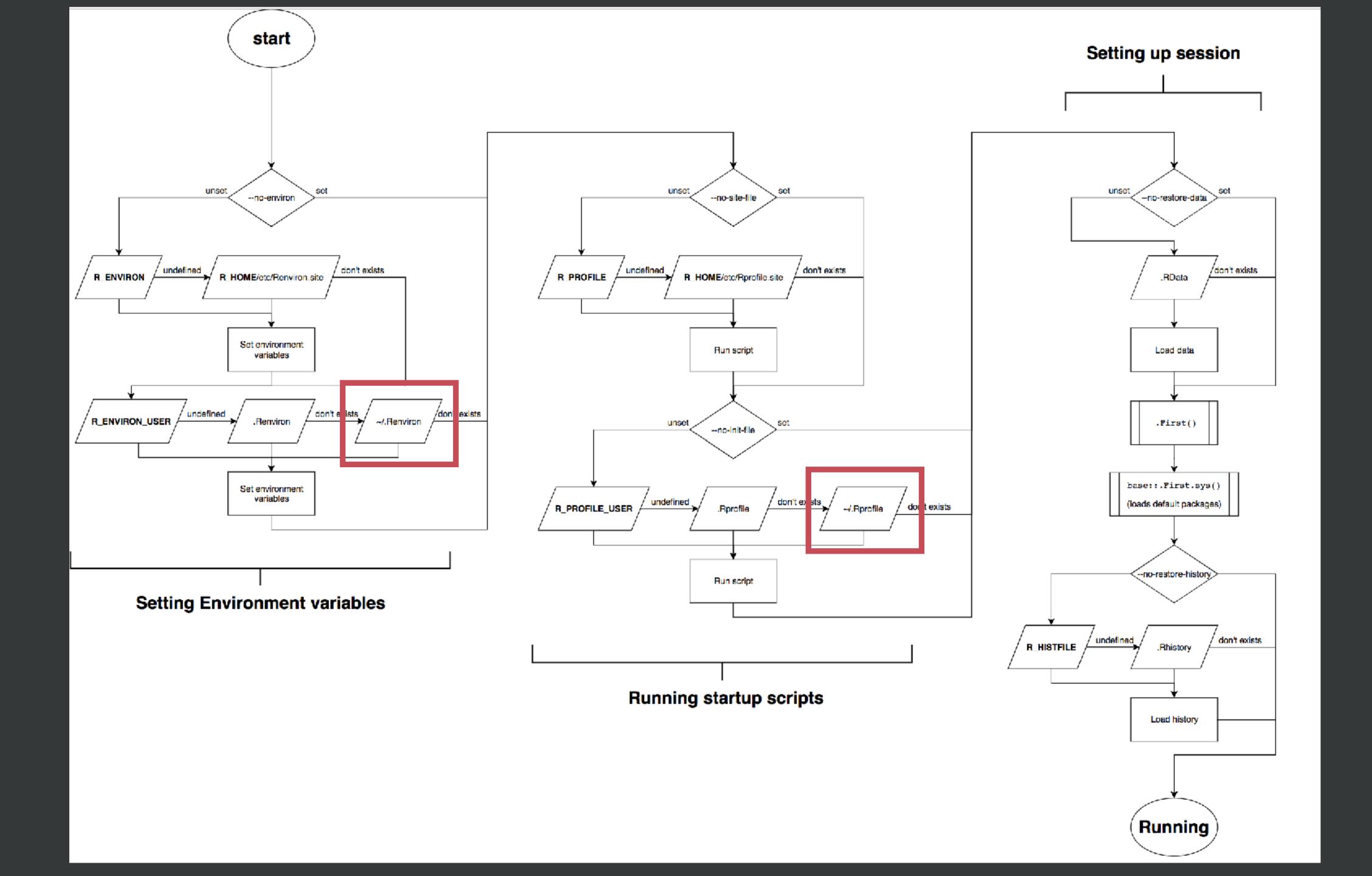
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https://whattheyforgot.org/r-startup.html





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

https://whattheyforgot.org/activities/12-startup-01.R

.Rprofile

helpers you use interactively

runs on every session

- .Set a default CRAN mirror
- Write a welcome message
- Customize their R prompt
- Change options, screen width, numeric display
- Load frequently used packages (but be very careful)
- Aliases / shortcuts for frequently used functions

Common pitfalls

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

library(ggplot2)
theme_set(theme_bw())

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

Exceptions

library(usethis)

library(devtools)

s <- summary h <- utils::head

```
options(repos = c(CRAN = "https://cran.rstudio.org"))
```

```
if (interactive()) {
  options(width = 120)
}
```

https://whattheyforgot.org/activities/12-startup-02.R

Maintaining R

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

Upgrading packages

Upda	Update Packages							
	Package	Installed	Available	NEWS				
	ape	5.1	5.2	***				
	BiocManager	1.30.1	1.30.2	100 m				
	conflicted	0.1.0.9000	1.0.0	222				
•	doParallel	1.0.11	1.0.14					
	ggridges	0.5.0	0.5.1					
•	igraph	1.1.0	1.2.2	X22				
	magic	1.5-8	1.5-9					
•	mockery	0.4.1	0.4.1.1					
	pROC	1.12.1	1.13.0	XCC XXX				
	rematch2	2.0.0.9000	2.0.1	<u> </u>				
	sm	2.2-5.5	2.2-5.6					
Se	lect All Select Nor	ne	Install Updates	Cancel				

Upgrading packages

update.packages("pkgname")

devtools::upgrade_packages("pkgname")

Upgrading all packages

Update Packages							
	Package	Installed	Available	NEWS			
✓	ape	5.1	5.2	50000 50000			
✓	BiocManager	1.30.1	1.30.2	2000 2000 2000			
•	conflicted	0.1.0.9000	1.0.0	**************************************			
✓	doParallel	1.0.11	1.0.14	XXX XXX			
•	ggridges	0.5.0	0.5.1	7/20 20/2			
•	igraph	1.1.0	1.2.2	X 00 000			
✓	magic	1.5-8	1.5-9	***** *****			
✓	mockery	0.4.1	0.4.1.1	V.C.			
•	pROC	1.12.1	1.13.0	7/20 20/2			
✓	rematch2	2.0.0.9000	2.0.1	XXX			
	sm	2 2-5 5	2 2-5 6	300			
Se	lect All Select Non	ie (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: devtools.pdf

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: dev

OS X binaries: r-release: devtools 1.13.6.tgz, r-oldrel: devtools 1.13.6.tgz

Old sources: devtools archive

google: cran devtools

old sources: devtools archive

devtools::install_version("devtools", "1.13.3")

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

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

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)
# 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)
```