Useful commands in base R

```
debug(), undebug()
debugonce()
browser()
traceback()
options(error = browser), options(error = NULL)
```

Debugging Shiny applications

Automatic traceback() in error output, in RStudio and application log Can set a breakpoint in the server function

Use browser () everywhere else (ui, sourced file, etc.)

Open traceback to examine

the functions that R called

before the error occurred

options(shiny.error = browser)

Continue

Launch debugger

mode from origin

Console ~/IDEcheatsheet/ <

of error

> foo()

Error!

Tracing: cat(file=stderr(),...), options(shiny.reactlog=TRUE)

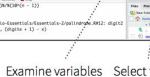
Debug mode in RStudio (from the IDE cheat sheet)

Open with **debug()**, **browser()**, or a breakpoint. RStudio will open the debugger mode when it encounters a breakpoint while executing code.

digit2 <- get_digit(num, (digits + 1) - x)

Click next to ... line number to add/remove a breakpoint.

Highlighted line shows where paused



Step into and out of functions to run

Console ~/IDEcheatsheet/ 🗇

Ouit debug Resume execution mode

Stop

Resources

Debugging with RStudio https://support.rstudio.com/hc/e n-us/articles/205612627-Debug ging-with-RStudio

Debugging Shiny applications https://shiny.rstudio.com/article s/debugging.html

"Debugging, condition handling, and defensive programming" in Advanced R

http://adv-r.had.co.nz/Exception s-Debugging.html



