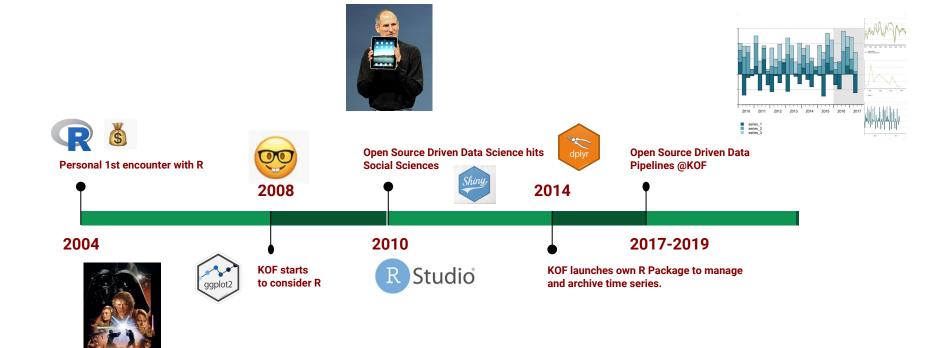
R in Production

KOF Swiss Economic Institute
Matthias Bannert (@whatsgoodio)

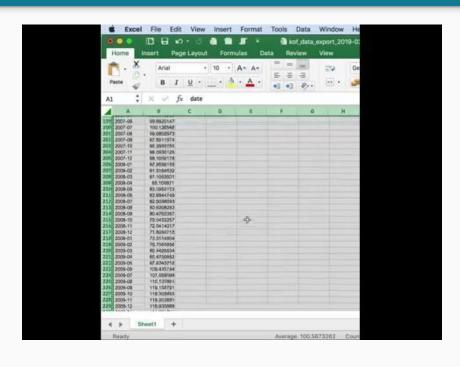




Challenge: Busy People



Challenge: Codephobia

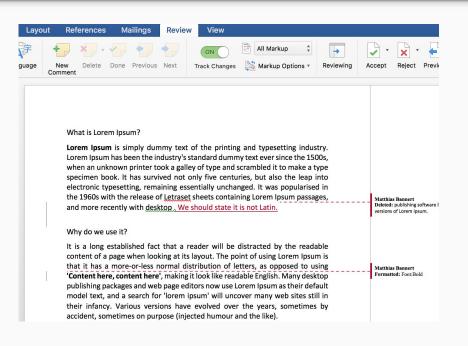


```
library(kofdata)
library(tstools)
tsplot(
  get time series("ch.kof.barometer"
))
           ch.kof.barometer
```



Source: GFYCAT, https://gfycat.com/allwarlikegermanpinscher

Challenge: Reporting



```
\documentclass{report}
\usepackage{lipsum}
\begin{document}

\chapter{Introduction}
\lipsum[2-4]

\end{document}
```

Open Source Environment

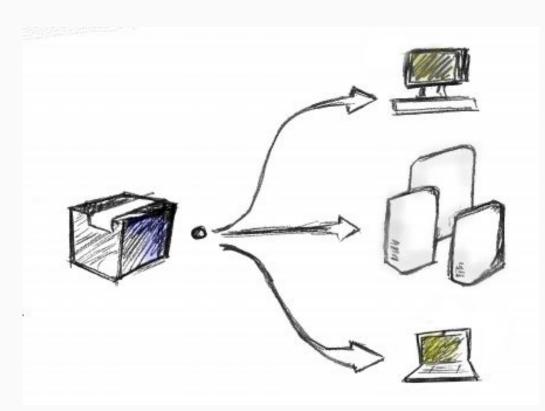
Keys to Acceptance

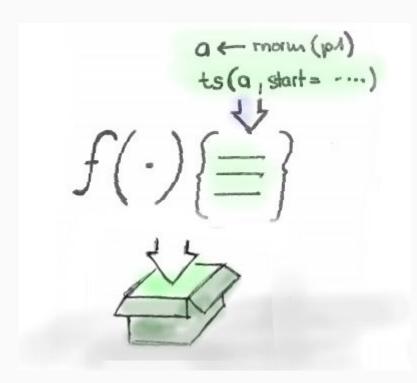
- R Studio Server
- Deployment
- Prototypes

R Studio Server



Make sure your deployment process is smooth.





Deployment in R

- organize code in functions
- follow conventions
- document properly (examples)

Deployment in R

Instead of

```
a <- 2
```

b <- 30

d < -10

x < -a + b

x*d

```
#' Do this and that cause this and that
was missin
# "
#' add an multiply useless stuff.
#' @param a integer some desc
#' @param b integer some desc
#' @param d integer some desc
#' @export
f <- function(a,b,d) {
    x < -a + b
    x*d
f(2,30,10)
f(4,40,20)
```

Use Prototypes.



"Premature optimization is the root of all evil."

Donald Knuth

How to Build Prototypes?





Codephopia & Busy People

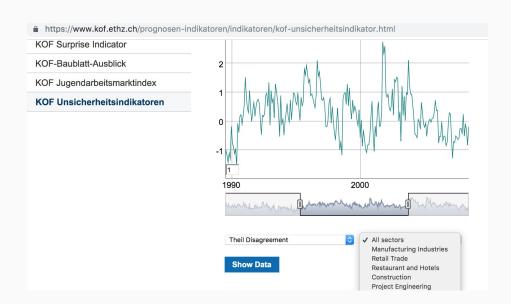
- R Studio Server
- code reviews,
- Workshops
- convenience packages

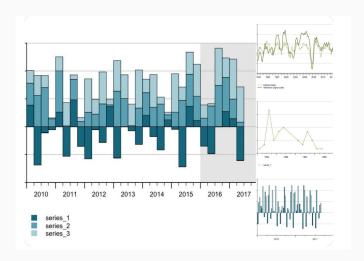
People start ♥ Code!

- automatic
- reproducible
- collaborative

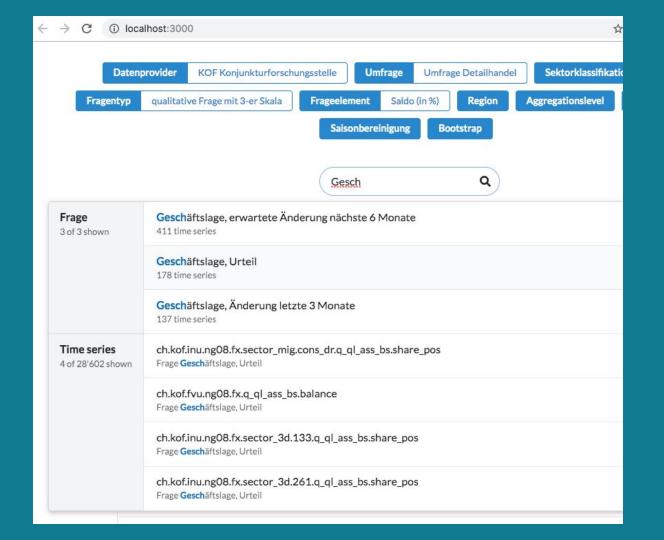
=> lower hurdles

Reporting





Outlook



useR @Toulouse, France July 9-12