

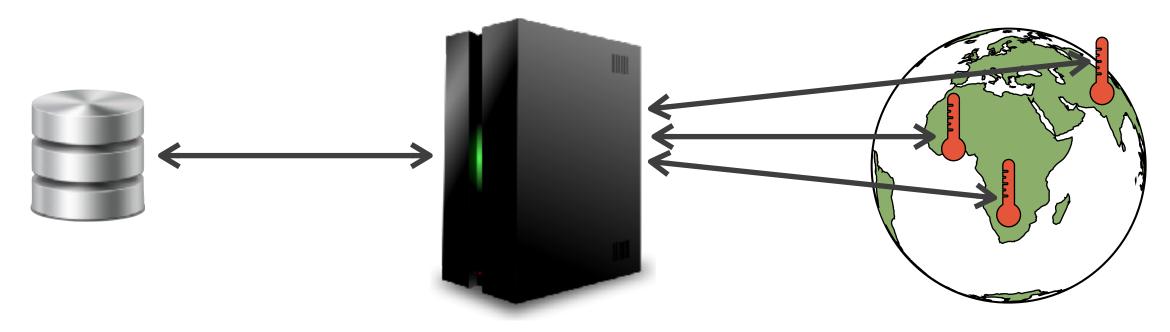
Jeff Allen 2/2018

RStudio

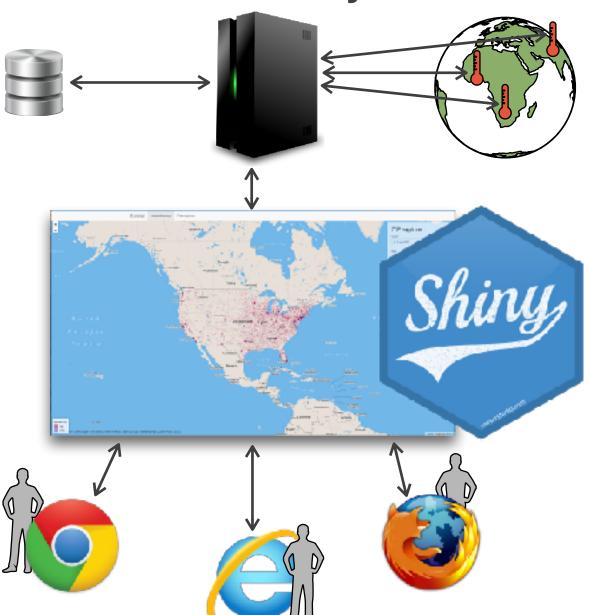


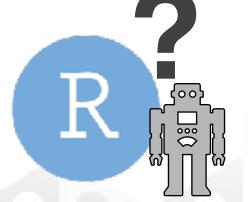
Web APIs

- Machine-friendly data formats (JSON)
- Programmatically consumed
- Accessible from all major programming languages and platforms
 - Including R (httr), and web browsers

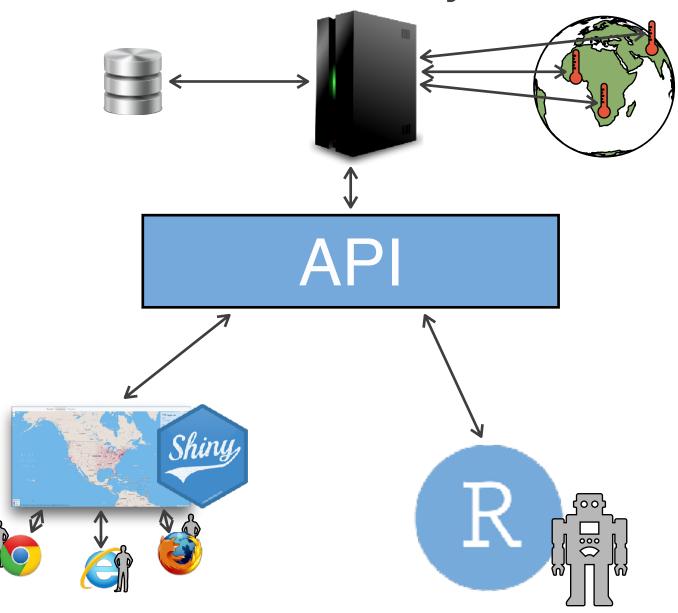




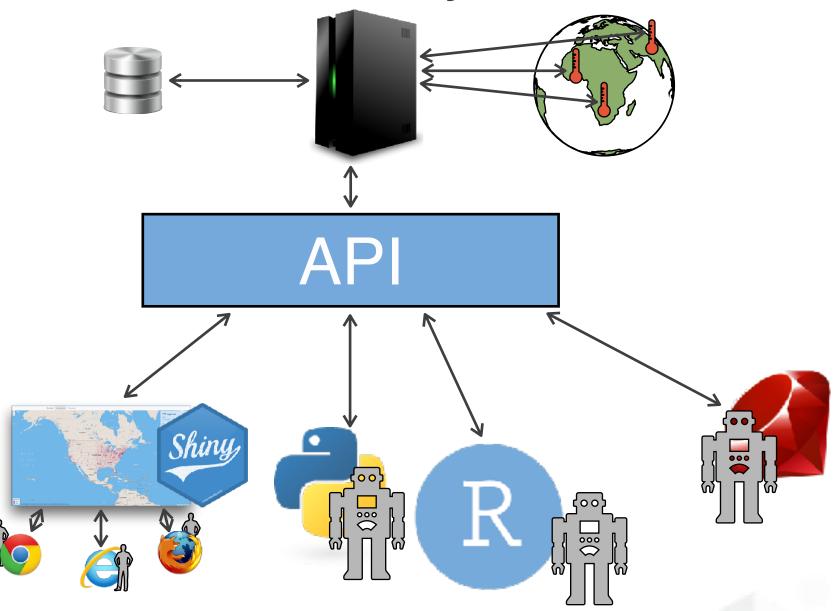














APIs with Plumber

- Open-source R package
- Converts your existing R code into web APIs using special comments
- install.packages("plumber")

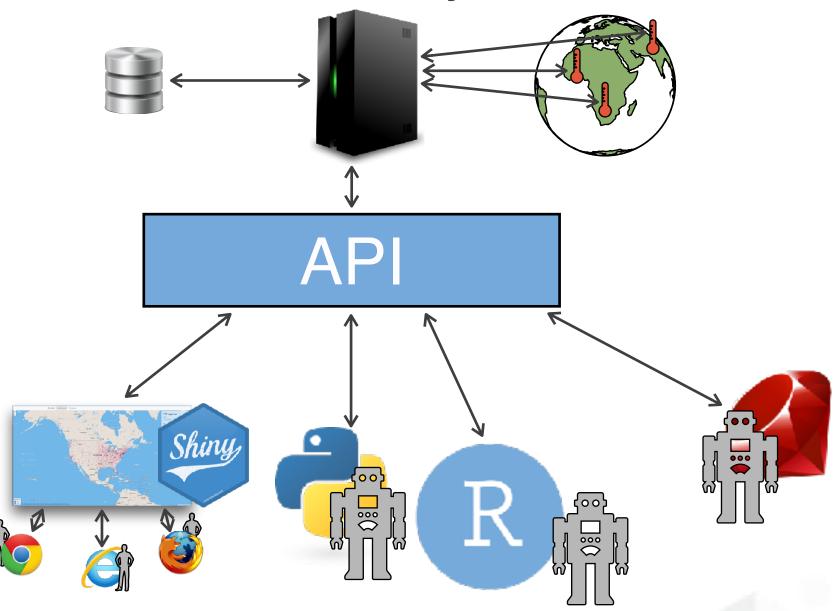




```
#' @get /echo
                 function(msg) {
                    paste("You said:", msg)
                                                            Jeff
                              localhost:8000/echo?msg="he x
                               Li localhost:8000/echo?msg="hello, world!"
                       ["You said: \"hello, world!\""]
Studio
```

library(dygraphs)

```
#' @get /spots/<year>/graph
        #' @serialize • • • /
                                     localhost:8000/spots/1970/gra ×
                                     ① localhost:8000/spots/1970/graph
        function (yea:
            dygraph (dat
                                                 Sunspots
                    main
               dyRangeSe
                                     120
                   paste0
                                     100
                   paste0
                                      80
                                     Jan 1970
                                             Apr 1970
                                                     Jul 1970
                                                             Oct 1970
R Studio
```

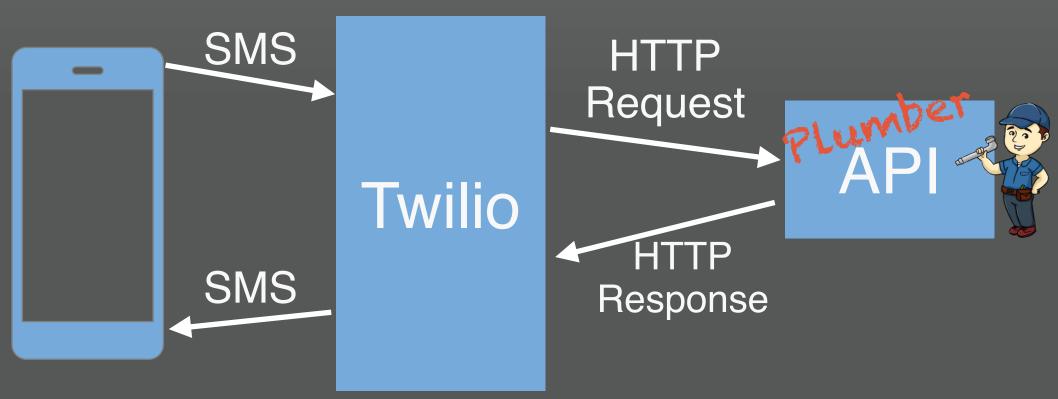




Text recently used emojis to 972-218-0013



Text recently used emojis to 972-218-0013



Hosting

- RStudio Connect
 - rsconnect::deployAPI()
 - Load balancing, access controls
 - Talk tomorrow: Session 3, production-1
- Digital Ocean
 - do_provision()



```
#' @get /count
function(){
   read_csv_async("file.csv") %...>%
   nrow()
}
```

Upcoming

- Async support
- Testing?
- Expanded documentation



Questions?

- https://rplumber.io
- StackOverflow plumber tag
- Quick start: https://rstd.io/plumber-qs
- GitHub: trestletech/plumber
- Slides: http://rstd.io/rsconf-plumber



