R-tistic

Introduction to R and RStudio

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Getting started

Download and install R

- Go to **http://www.r-project.org**
- Download R for your operating system
- Install R
- Bring yourself and your laptop to Eawag (Room Aqualino) on 16.03.2017 at 01:30 pm

Getting started

Download and install RStudio

- Go to **https://www.rstudio.com**
- Download RStudio for your operating system (Linux, (Mac) OS X, Windows)
- Install RStudio

Getting started

Open RStudio

- type `print("hello world")` into the Console and hit ↵

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```
print("hello world")
```

```
## [1] "hello world"
```

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Congrats! You have just written your first R code.

Getting started

Install packages

- type `install.packages("tidyverse")` into the Console
  - this installs the R packages: `ggplot2`, `tibble`, `tidyr`, `readr`, `purrr` and `dplyr`
- type `library(tidyverse)` into the Console and hit ↵

```
library(tidyverse)
```

Getting started

Plot a graph

- type the code below into the console and hit ↵

```
ggplot(mpg, aes(x = displ, y = hwy)) +
    geom_point() +
    theme_bw(base_size = 16)
```