Survival kit

Special characters

Some characters are somewhat difficult to write on the Czech keyboard:

Character	Shortcut	Alterantive
#	Alt + 35	Alt + x
\$	Alt + 36	$Alt + \mathring{u}$
&	Alt + 38	Alt + c
~	Alt + 126	Alt + +
		Alt + w
>		Alt + .
{}		Alt + b/n
		Alt + f/g
•		$Alt + \acute{y} + Space$
^	Alt + 94	

RStudio shortcuts

Sign/Action	Shortcut
->	Ctrl + Alt + -
%>%	Ctrl + Shift + m
run selected row	Ctrl + Enter
run whole script	Ctrl + Shift + Enter
comment line	Ctrl + Shift + c
insert section	Ctrl + Shift + r

Function reference

code description

Basics

```
install.packages("packagename") installs a package
library(packagename) attaches a package from a library
Getting help on anything:
?function equals help(function)
??function
Lookign at data:
head(x) and tail(x)
View(x)
```

Summary functions

mean(x) returns mean meadian(x) returns median

Data manipulation with dplyr

```
load package library(dplyr)
%>% pipe operator, x %>% f() equals f(x), allows chaining functions in a pipeline (in newer versions of R, there is a native pipe operator |>)
count(data) count how many observations there are in a data frame summarise(data,...) applies summary functions to a data frame group_by(data, x) group data by values in variable x
Chain this for example like this:
```

Plotting with ggplot2

```
Load package library(ggplot2).

Alert: in ggplot2, individual pieces of code are chained using +!

ggplot() basic function call for each plot

aes(x, y, color, fill...) aesthetics
```

Geometries

```
geom_histogram() produces histogram
geom_point() produces scatterplot
Create a plot like this:

data %>%
    ggplot() +
    aes(x) +
    geom_histogram()
```