## Lecture Jan27

## January 27, 2021

```
[]: # this is a cell of code
    →run as code
    # you can also hit SHIFT+ENTER
         # I can also comment here!
[]: # loop over a billion numbers
    for (i in seq(1, 1000000000)){
       i
    }
      This
   1
   1.1 Is A
   1.1.1 Markdown
   Cell bold
   italics
   Some common Markdown commands
[1]: # assign the variable x a value
    x <- 3
[2]: \# what is x?
    х
   3
[5]: # objects in working memory
    ls()
[4]: # remove x from working memory
[6]: # run many lines at the same time
    x <- 6
```

```
y <- 7
      x * y
     42
 [7]: # semi-colon
      x < -10; y < -20
      x * y
     200
[14]: # naming objects
      myVariable <- 10
      my_object <- 20
      My_object <- 30
      myvariable <- 40
[15]: my_object; My_object
     20
     30
[16]: myVariable; myvariable
     10
     40
[17]: # strings are space sensitive
      x <- "hello world"
      y <- "helloworld"
      x; y
     'hello world'
     'helloworld'
[18]: # use parentheses to display assignments
      (x <- "hello world") # equivalent to ```x <- "hello world"; x```
      (y <- "helloworld")</pre>
     'hello world'
     'helloworld'
[20]: # R will do its best to be helpful with errors
      x <- "hello"
      Error in parse(text = x, srcfile = src): <text>:2:6: unexpected INCOMPLETE_STRI_G
       1: # R will do its best to be helpful with errors
       2: x <- "hello'
```

[21]: # the command seq is a function seq(1, 10)**seq**(10) seq(1, 10, 2) seq(1, 10, 2, 10) 1. 1 2. 2 3. 3 4. 4 5. 5 6. 6 7. 7 8. 8 9. 9 10. 10 1. 1 2. 2 3. 3 4. 4 5. 5 6. 6 7. 7 8. 8 9. 9 10. 10 1. 1 2. 3 3. 5 4. 7 5. 9 Error in seq.default(1, 10, 2, 10): too many arguments Traceback: 1. seq(1, 10, 2, 10) 2. seq.default(1, 10, 2, 10) 3. stop("too many arguments") [22]: # get help for using seq ?seq [24]: # note the spacing style seq(1, 2, length.out=3) 1. 1 2. 1.5 3. 2 Style Guide Other useful commands, try them! [25]: # get working directory getwd() # See all example datasets in available packages data() '/Users/mruddy/Documents/BSDS100'

Traceback:

[]: