hw00-jaewonc3

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2017 9 4

Exercise 1: Know Thine Environment

Figures 1 through 6 verifies each setups.

Exercise 2: Toto, I have a feeling we're not in Kansas anymore...

1. James Balamuta
2. His office is at Tech Plaza 212F, office hours are TBA
3. Tag [STAT 385] and a space must be contained before, and the subject has to provide more helpful description
4. 218 Mechanical Engineering Bldg on Mondays, Wednesdays, and Fridays, 2:00 PM - 2:50 PM.
5. 1 midterm and 1 final exam, location and time to be announced.
6. Each component is worth 100 points, and not everyone will get the same points
7. You will have to cite where you referenced the code from.

Exercise 4: Who I Am

Self-portrait: Figure 7.

Item	Who I am
Name	Jaewon Choi
NetID	jaewonc3
Birthday	1996.02.26
Year	Junior
Major	Industrial Engineering
Expected graduation date	2019.02

Ordered List of:

1. My favorite food: steak
2. My favorite TV show: Game of Thrones
3. My favorite movie: Breakfast at Tiffany's
4. My favorite song: Seven Days In Sunny June by Jamiroquai (https://www.youtube.com/watch?v=FRSH-egVyzk)

Unordered List of:

- Recent Memorable Event: I saw the eclipse in the airplane.
- Where I spend free time: In my room.

Inline equation $\phi = \frac{1+\sqrt{5}}{2} = 1.618034$

My favorite mathematical equation is Laplace's Equation:

$$\Delta f = \frac{\delta^2 f}{\delta x^2} + \frac{\delta^2 f}{\delta y^2} + \frac{\delta^2 f}{\delta z^2} = 0$$

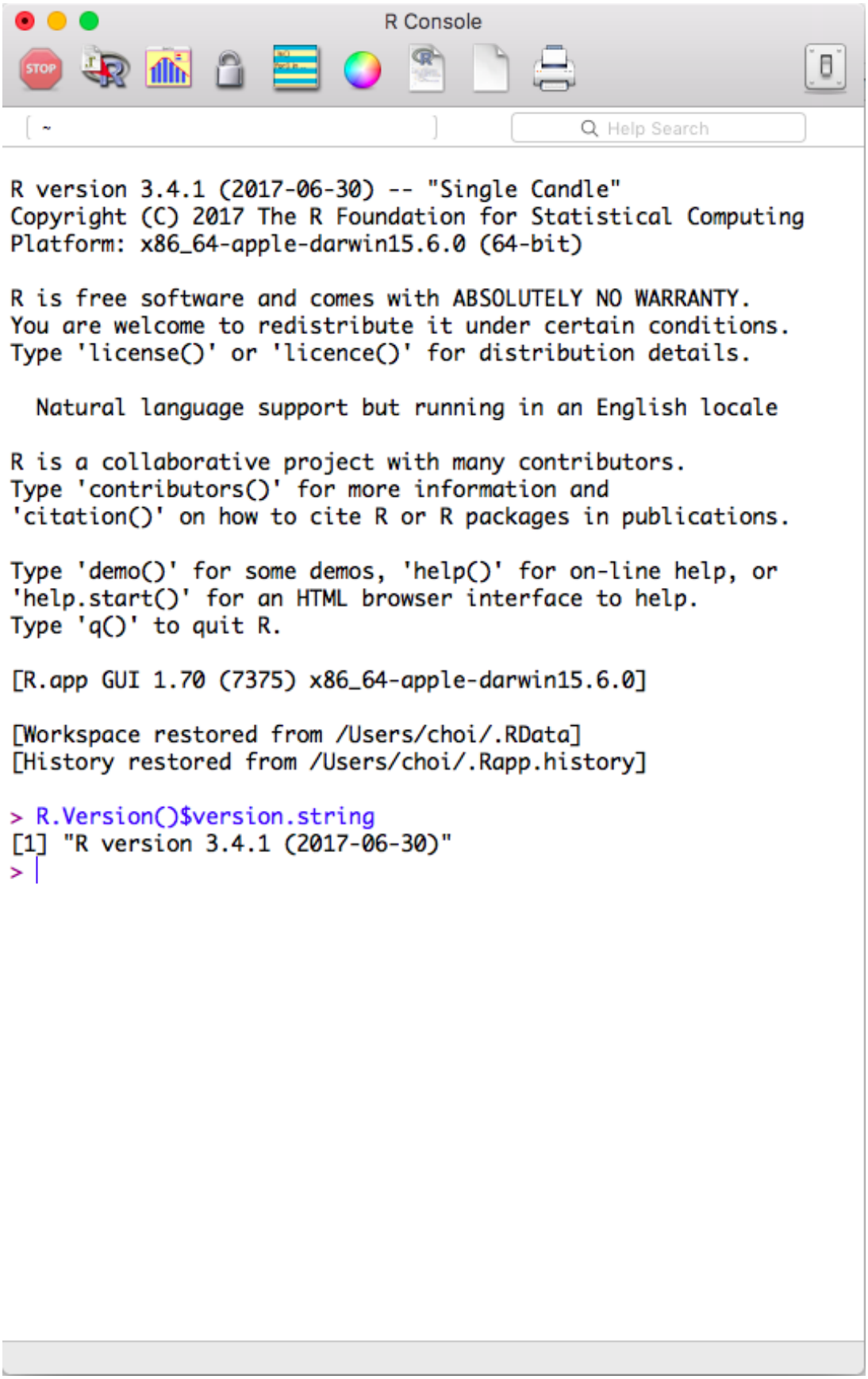

Figure 1: Verification of R 3.4.1

```
> RStudio.Version()
$citation

To cite RStudio in publications use:

  RStudio Team (2016). RStudio: Integrated Development for R.
  RStudio, Inc., Boston, MA URL http://www.rstudio.com/.

A BibTeX entry for LaTeX users is

  @Manual{,
    title = {RStudio: Integrated Development Environment for R},
    author = {{RStudio Team}},
    organization = {RStudio, Inc.},
    address = {Boston, MA},
    year = {2016},
    url = {http://www.rstudio.com/},
  }


$mode
[1] "desktop"

$version
[1] '1.0.153'

>
```

Figure 2: Verification of RStudio 1.0.153

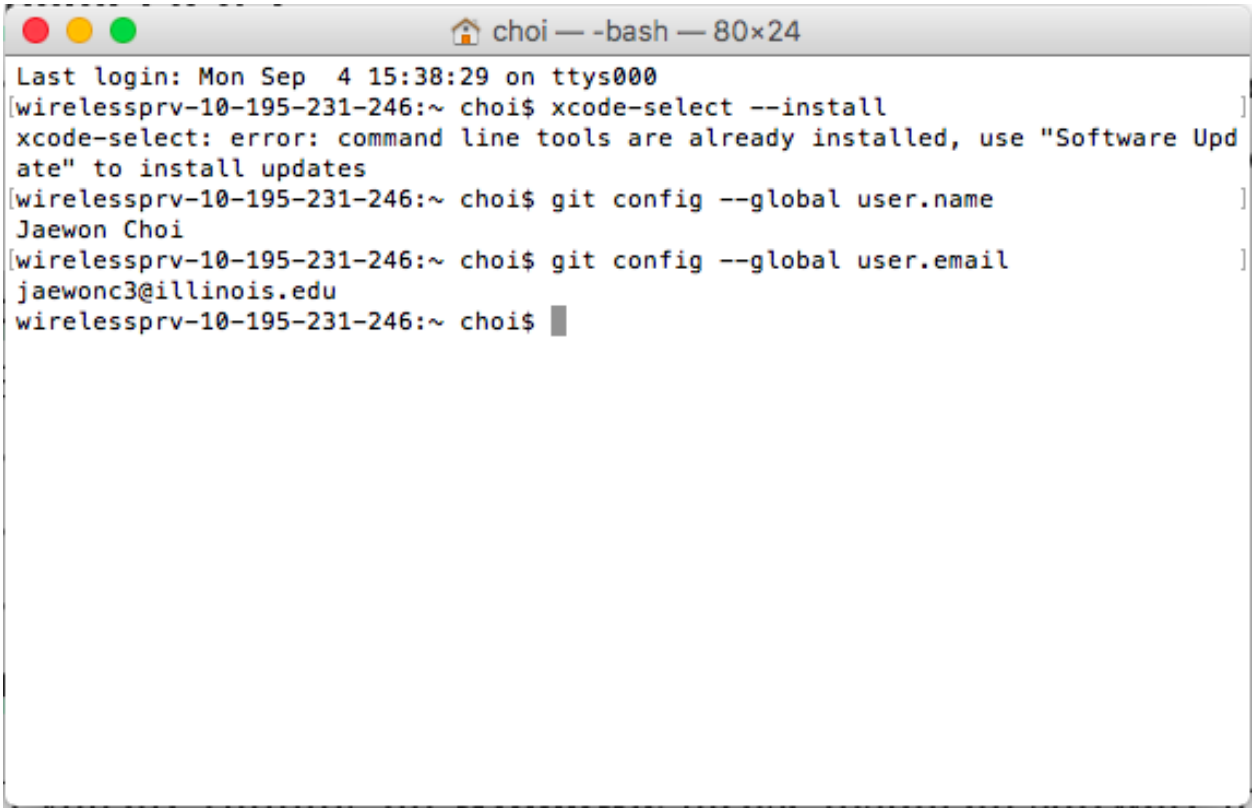

Figure 3: Verification of installation of Git

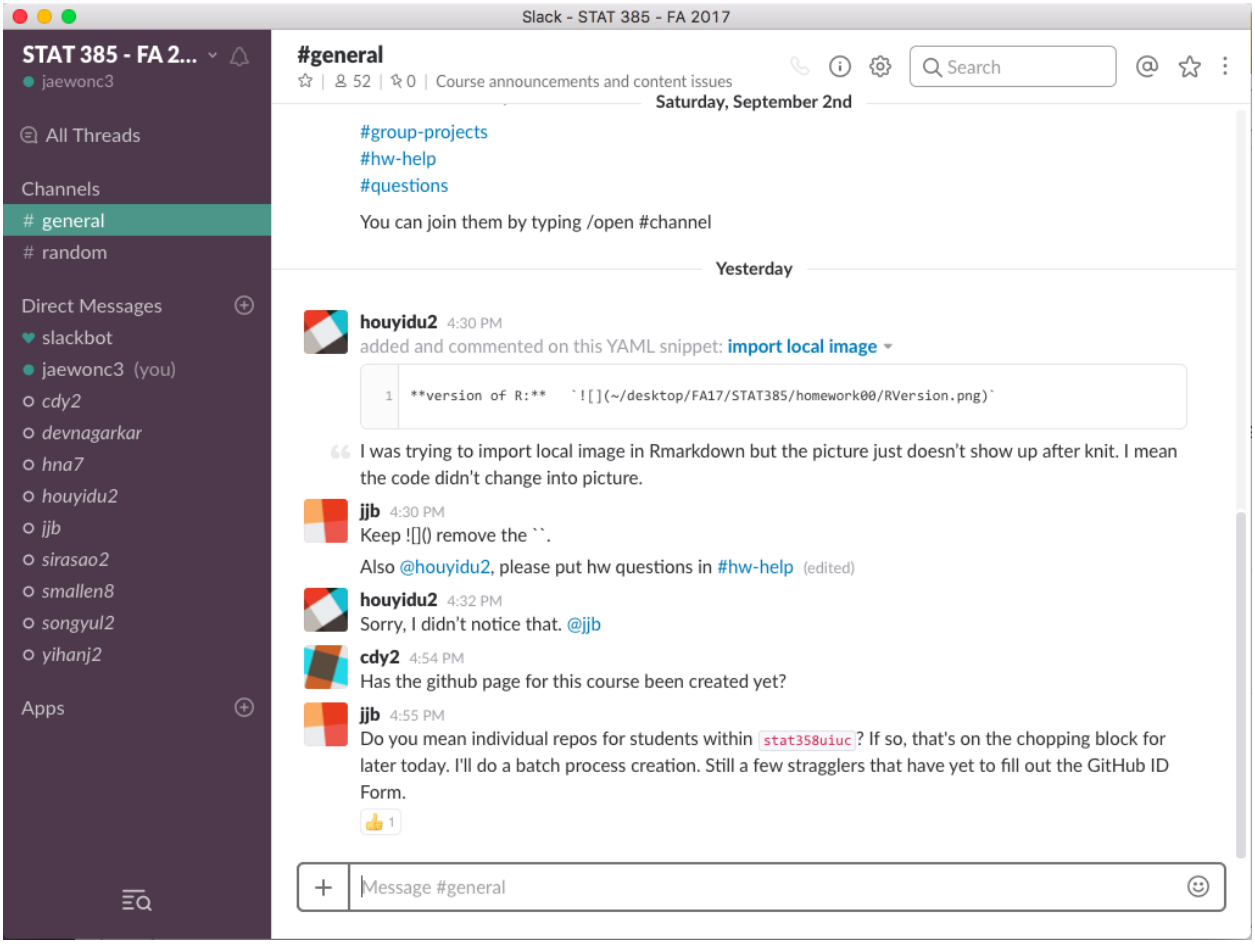

Figure 4: Verification of Slack

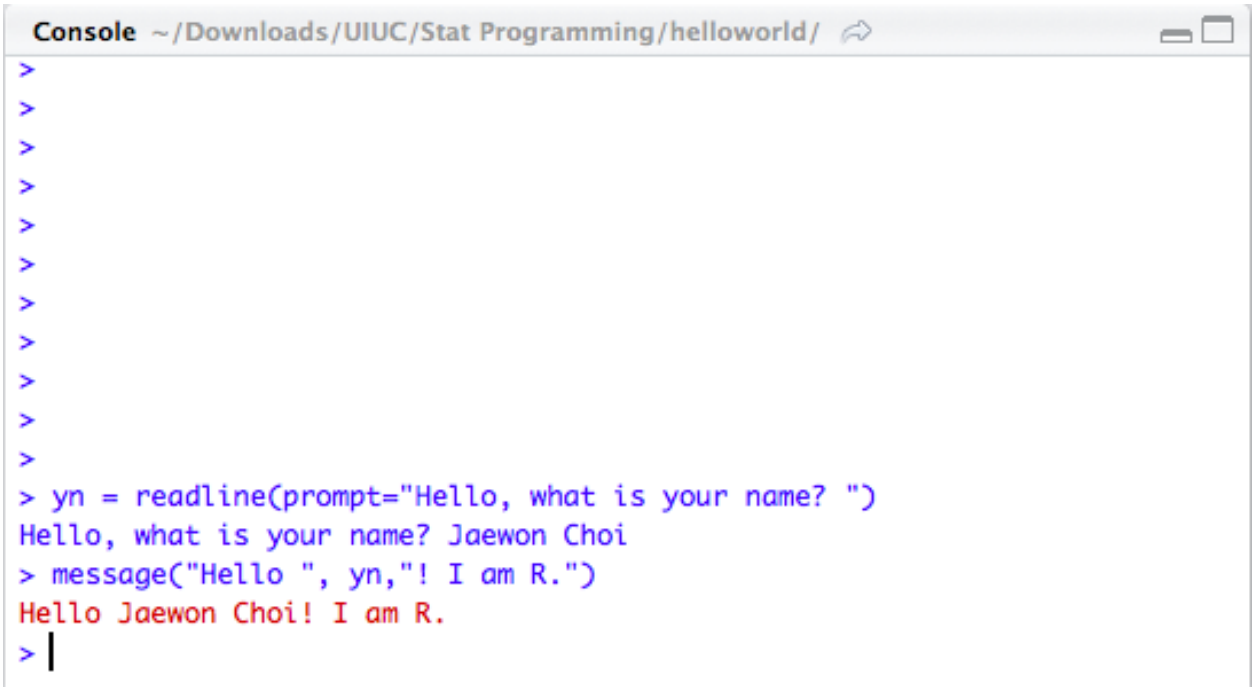

Figure 5: Verification of Working R Install

Figure 6: Verifying the R Build Toolchain

Figure 7: A self portrait

Exericise 5: Got Code?

```
divide = function(a, b) {
  return(a / b)
}

divide(8, 2)
```

```
## [1] 4
```

You can prevent display of the result by setting the chunk option `results='hide'`.

```
divide = function(a, b) {
  return(a / b)
}

divide(8, 2)
```

You don't lose syntax highlighting, but you only hide the results of the code.

There is another way to get similar response; by having it evaluate only code line 1 and 2.

```
divide = function(a, b) {
  return(a / b)
}

## divide(8, 2)
##
```

if you do not want your code run, you can set the chunk option `eval = FALSE`.

```
divide = function(a, b) {
  return(a / b)
}

divide(8, 2)
```

if i want to share divide function without syntax highlighting,

```
divide = function(a, b) {
  return(a / b)
}

divide(8, 2)
```

This approach excludes syntax highlighting, but it is an inline code, not a code chunk.

Exercise 6: Hopeless Wanderer

$(\frac{6}{3} - 1) + 2 * 5^2 = 51$

```
add = function(a, b) {
  message("ADD")
  return(a + b)
}

subtract = function(a, b) {
  message("SUBTRACT")
```

```
  return(a - b)
}

multiply = function(a, b) {
  message("MULTIPLY")
  return(a * b)
}

divide = function(a, b) {
  message("DIVIDE")
  return(a / b)
}

power = function(a,b){
  message("POWER")
  return(a ^ b)
}

add((subtract(divide(6,3),1)),multiply(2, power(5,2)))
```

```
## ADD

## SUBTRACT

## DIVIDE

## MULTIPLY

## POWER

## [1] 51
```

Evaluation order changes when

```
add = function(a, b) {
  message("ADD:", a, ",", b)
  return(a + b)
}

subtract = function(a, b) {
  message("SUBTRACT:", a, ",", b)
  return(a - b)
}

multiply = function(a, b) {
  message("MULTIPLY:", a, ",", b)
  return(a * b)
}

divide = function(a, b) {
  message("DIVIDE:", a, ",", b)
  return(a / b)
}

power = function(a,b){
  message("POWER:", a, ",", b)
  return(a ^ b)
```

```
}

add((subtract(divide(6,3),1)),multiply(2, power(5,2)))
```

```
## DIVIDE:6,3

## SUBTRACT:2,1

## POWER:5,2

## MULTIPLY:2,25

## ADD:1,50

## [1] 51
```

my guess is that for the former code prints message as soon as it meets the code, but the latter awaits until there is a return value of `a` and `b` until it prints messages.