

JOHNNY APPLESEED, PH.D.  
SPRING, 2018

WEEK 01  
LECTURE 01

INTRO TO SOCIOLOGY

---

SEQUOIADENDRON  
GIGANTEUM

# AGENDA

1. Front Matter
2. Lorem ipsum
3. Consectetur adipiscing
4. Sed do eiusmod
5. Back Matter

# 1 FRONT MATTER

## 1. FRONT MATTER

---

# ANNOUNCEMENTS



Last week's lecture slides now available



Response Paper 01 due **next class!**



Grade Center has been updated with all current grades



Response Paper 02 due in two weeks



Reading assignment for next week changed (see updated Syllabus)



Field-trip to Yosemite is **next class!**

2 LOREM  
IPSUM



## 2. LOREM IPSUM

---

# DUIS AUTE IRURE DOLOR



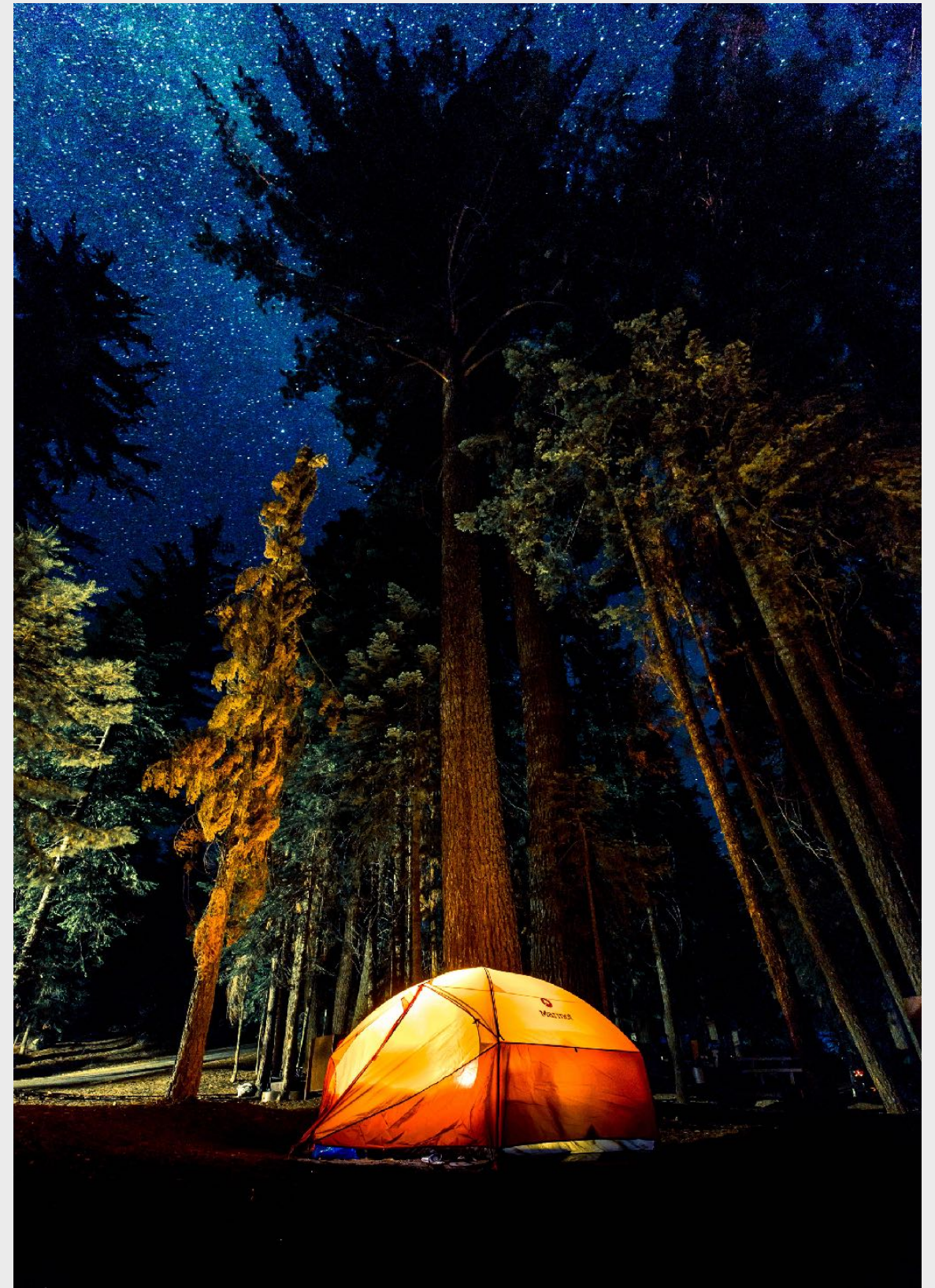


## 2. LOREM IPSUM

---

# DUIS AUTE IRURE DOLOR

- ▶ Tellus magna, lacinia semper convallis nihil lorem, sed felis aptent semper nulla.
- ▶ Quis libero aliquet quisque ante. Et taciti velit at gravida, ante auctor, id erat ac et pede dapibus.
- ▶ Non in mi ullamcorper, eros mollis est magna. Sapien facilisis, pretium vivamus vel.
- ▶ Amet eu sagittis vitae morbi. Justo consectetur nullam vitae sollicitudin eu ipsum.



# SEQUOIA DENDRON GIGANTEUM

Largest Living Trees

#	Tree	Grove	Height (m)
1	General Sherman	Giant Forest	83.8
2	King Arthur	Garfield Grove	82.4
3	Boole	Converse Basin	81.9
4	General Grant	Grant Grove	81.7
5	Lincoln	Giant Forest	78.0









**CLIMB THE  
MOUNTAINS AND  
GET THEIR GOOD  
TIDINGS. NATURE'S  
PEACE WILL FLOW  
INTO YOU AS  
SUNSHINE FLOWS  
INTO TREES.**

**John Muir (1901)**



3 CONSECTETUR  
ADIPISCING



# TELLUS MAGNA

- ▶ Tellus magna, lacinia semper convallis nihil lorem, sed felis aptent semper nulla.
- ▶ Quis libero aliquet quisque ante. Et taciti velit at gravida, ante auctor, id erat ac et pede dapibus.
- ▶ Non in mi ullamcorper, eros mollis est magna. Sapien facilisis, pretium vivamus vel.
- ▶ Amet eu sagittis vitae morbi. Justo consectetur nullam vitae sollicitudin eu ipsum.



### 3. CONSECTETUR ADIPISCING

---

# TELLUS MAGNA

Dapibus orci in, quam eleifend ante risus erat nibh, vitae mattis fermentum pede donec id suscipit, luctus nunc aenean aliquam wisi senectus urna, mauris magnis nec fermentum adipiscing. Ultrices posuere at, ut tincidunt. Lacinia leo ligula aliquet curabitur amet est, purus enim suspendisse eu mauris donec curabitur. Molestie consectetur laoreet nonummy ut, nonummy metus class suspendisse semper metus quis. Tristique ac accumsan, volutpat mattis magna orci, et neque.





# TELLUS MAGNA





THOUSANDS OF TIRED,  
NERVE-SHAKEN, OVER-  
CIVILIZED PEOPLE ARE  
BEGINNING TO FIND OUT  
THAT GOING TO THE  
MOUNTAINS IS GOING HOME

John Muir (1901)

# TELLUS MAGNA

- ▶ Tellus magna, lacinia semper convallis nihil lorem, sed felis aptent semper nulla. Quis libero aliquet quisque ante.
- ▶ Et taciti velit at gravida, ante auctor, id erat ac et pede dapibus. Non in mi ullamcorper, eros mollis est magna.
- ▶ Sapien facilisis, pretium vivamus vel. Amet eu sagittis vitae morbi. Justo consectetur nullam vitae sollicitudin eu ipsum.
- ▶ Aliquet et pellentesque tincidunt, volutpat nulla, ut mollis elit, id dui vitae eros vivamus mauris mauris.



# TELLUS MAGNA



Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua?

# TELLUS MAGNA



Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua?



- ▶ Eu facilisis sed odio morbi quis commodo odio.
- ▶ Mauris sit amet massa vitae tortor condimentum lacinia.
- ▶ Vitae proin sagittis nisl rhoncus.
- ▶ Lorem ipsum dolor sit amet.



**4 SED DO  
EIUSMOD**

# COMMODO ODIO

$H_0$

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

$H_A$

Eu facilisis sed odio morbi quis commodo odio.

# SAMPLE MEAN

Let:

- ▶  $\bar{x}$  = sample mean
- ▶  $n$  = sample size
- ▶  $x$  = random variable
- ▶  $i$  = individual observation

$$\bar{x} = \frac{\sum_{i=1}^n x_i}{n}$$



# DESCRIPTIVE STATISTICS

**f(x)**

`skim(.data, ...)`

Parameters:

▶ `.data`

▶ `...`

nam



Available in `skimr`

Download via CRAN



# DESCRIPTIVE STATISTICS

**f(x)**

`skim(.data, ...)`

Parameters:

- ▶ `.data` is a tibble or an object that can be converted to a tibble
- ▶ `...` is optional, and typically consists of a list of *unquoted* column names



# DESCRIPTIVE STATISTICS

f(x)

```
skim(.data, ...)
```



Using the `hwy` and `cty` variables from `ggplot2`'s `mpg` data:

```
> skim(mpg, hwy, cty)
```



Output will include information about the data object, and the structure will vary based on the format of the individual columns.



# DESCRIPTIVE STATISTICS

```
> skim(mpg, hwy, cty)
Skim summary statistics
n obs: 234
n variables: 11
```

Variable type: integer

variable	missing	complete	n	mean	sd	p0	p25	median	p75	p100	hist
cty	0	234	234	16.86	4.26	9	14	17	19	35	
hwy	0	234	234	23.44	5.95	12	18	24	27	44	

## 4. SED DO EIUSMOD

---

# DESCRIPTIVE STATISTICS



```
> skim(mpg, hwy, cty)
```

Skim summary statistics

n obs: 234

n variables: 11

Variable type: integer

variable	missing	complete	n	mean	sd	p0	p25	median	p75	p100	hist
cty	0	234	234	16.86	4.26	9	14	17	19	35	
hwy	0	234	234	23.44	5.95	12	18	24	27	44	





How would you interpret this result?



# DESCRIPTIVE STATISTICS

```
> skim(mpg, hwy, cty)
Skim summary statistics
n obs: 234
n variables: 11
```

Variable type: integer

variable	missing	complete	n	mean	sd	p0	p25	median	p75	p100	hist
cty	0	234	234	16.86	4.26	9	14	17	19	35	
hwy	0	234	234	23.44	5.95	12	18	24	27	44	



Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

# 5 BACK MATTER



# AGENDA REVIEW

2. Lorem ipsum

3. Consectetur adipiscing

4. Sed do eiusmod

## 5. BACK MATTER

---

# REMINDERS



Last week's lecture slides now available



Response Paper 01 due **next class!**



Grade Center has been updated with all current grades



Response Paper 02 due in two weeks



Reading assignment for next week changed (see updated Syllabus)



Field-trip to Yosemite is **next class!**