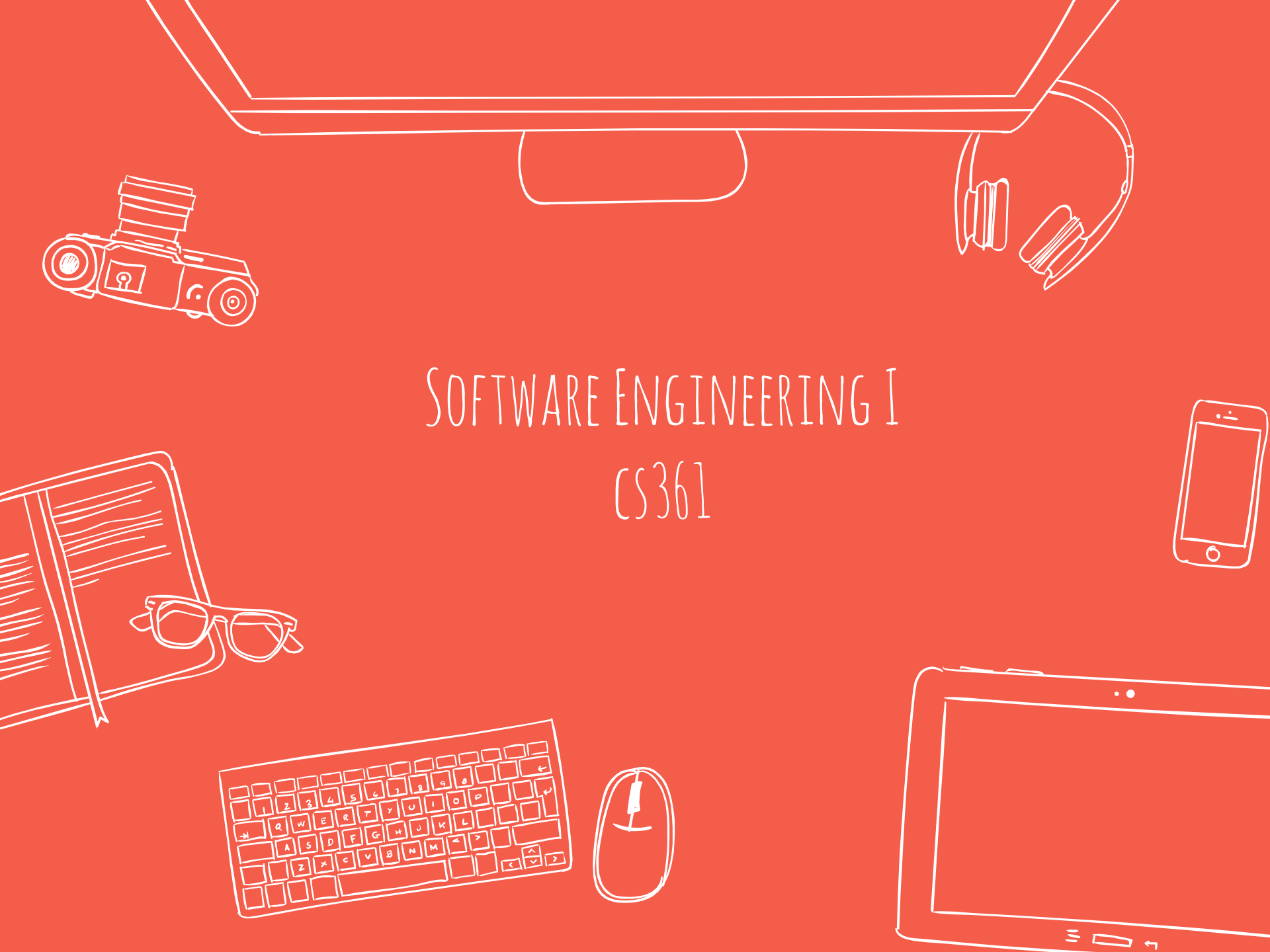


SOFTWARE ENGINEERING I

CS361

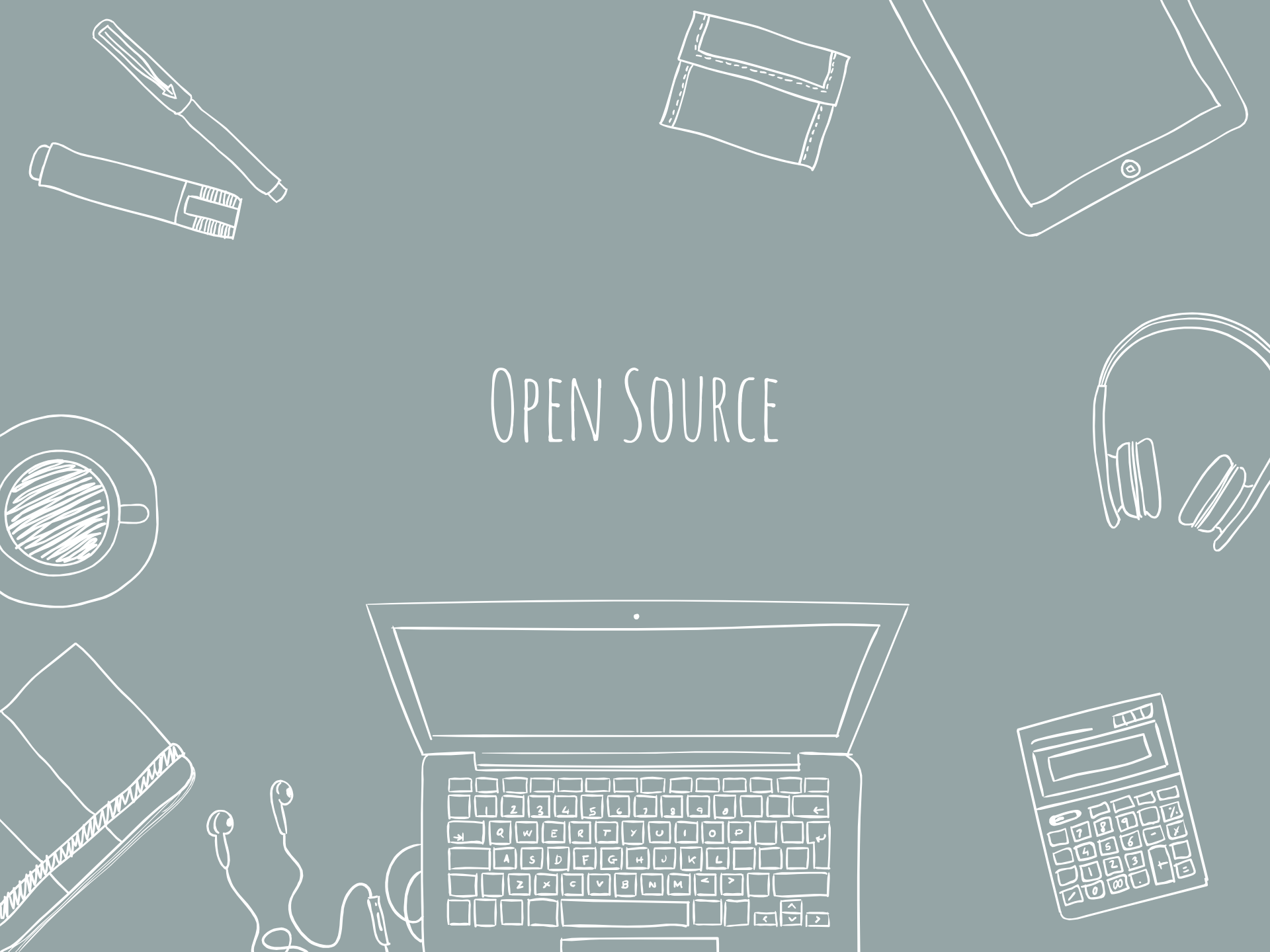


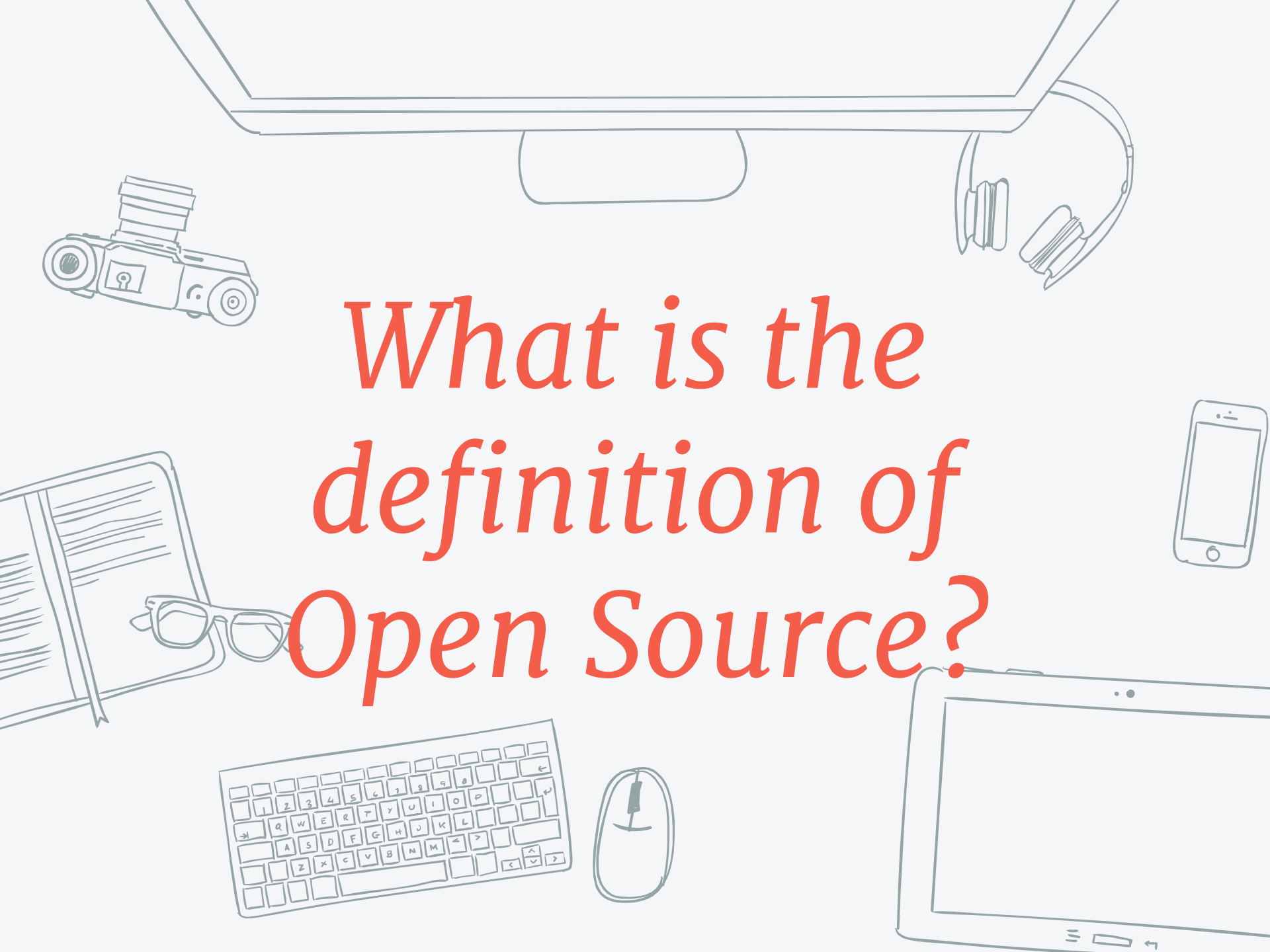


ANNOUNCEMENTS

- ✖ Assignment 4 Directions (No need to fold)
- ✖ Final Tuesday 1800-1950
3/15/16 WNGR 153 (HERE)
- ✖ Review for Final next
Thursday. Slides and concepts
from assignments

OPEN SOURCE





*What is the
definition of
Open Source?*



FREE SOFTWARE
FOUNDATION





FREE SOFTWARE FOUNDATION

F0: The freedom to run the program as you wish, for any purpose

F1: The freedom to study how the program works, and change it so it does your computing as you wish

F2: The freedom to redistribute copies so you can help your neighbor

F3: The freedom to distribute copies of your modified versions to others



®

open source
initiative



OSI OPEN SOURCE DEFINITION

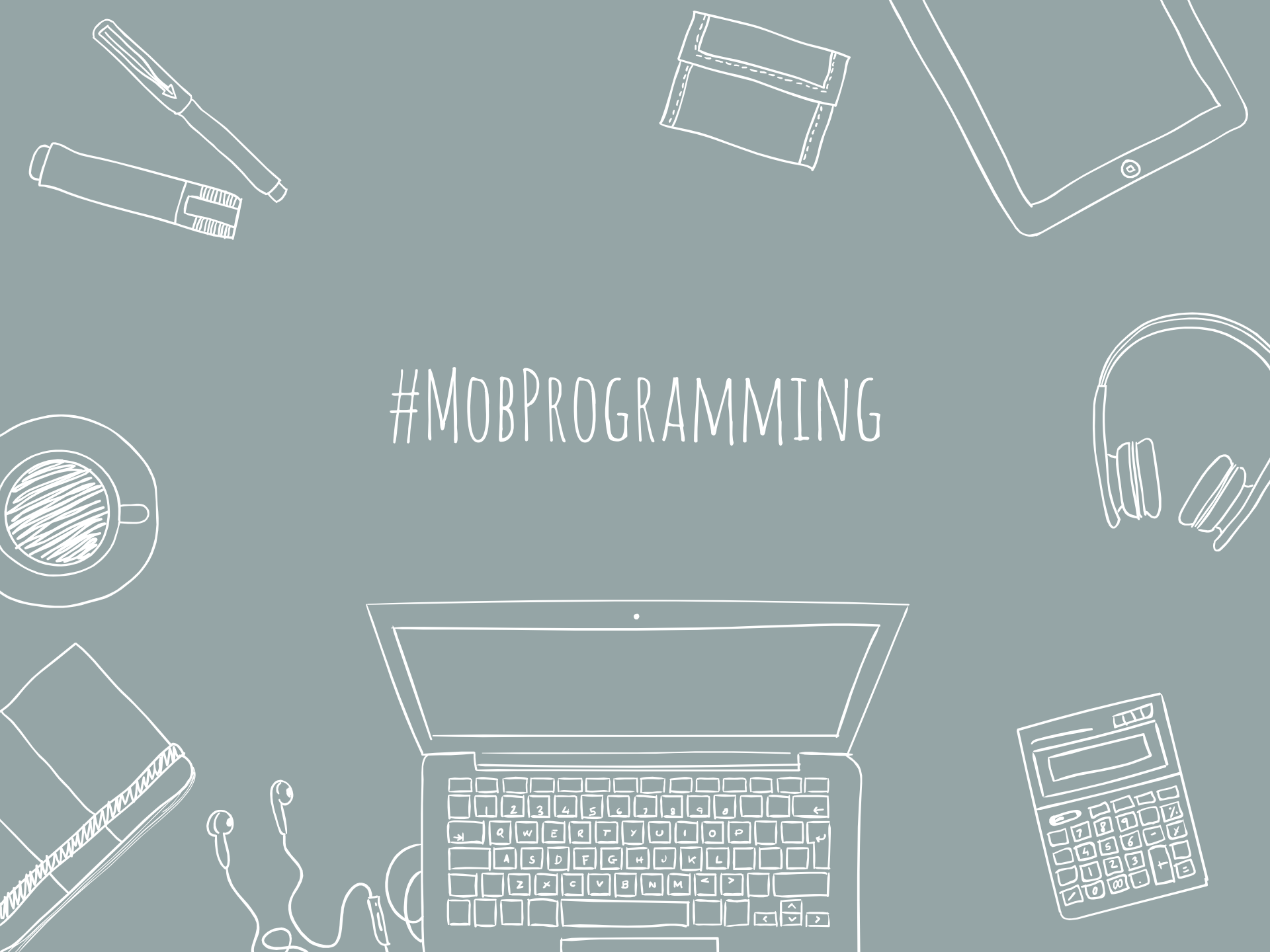
- ✖1. Free Redistribution
- ✖2. Source Code
- ✖3. Derived Works
- ✖4. Integrity of The Author's Source Code
- ✖5. No Discrimination Against Persons or Groups
- ✖6. No Discrimination Against Fields of Endeavor
- ✖7. Distribution of License
- ✖8. License Must Not Be Specific to a Product
- ✖9. License Must Not Restrict Other Software
- ✖10. License Must Be Technology-Neutral



LICENSES

- ✖ <http://choosealicense.com/>
- ✖ <https://opensource.org/licenses>
- ✖ <https://creativecommons.org/licenses/>

#MOBPROGRAMMING





WHAT IS #MOBPROGRAMMING

All the brilliant people working on the same thing, at the same time, in the same space, on the same computer.

– Woody Zuill (the discoverer of Mob Programming)



WHY WOULD ANYONE WANT THIS?



The background is a light blue-grey color with faint, hand-drawn line art illustrations of various objects. In the top left, there's a portion of a computer keyboard. To its right is a small USB drive. Further right is a pen or stylus. In the top right corner, there's a sketch of a notepad with a pencil and some scribbles. In the bottom left, there's a spoon and a pair of sunglasses. In the bottom right, there's a pair of headphones with a coiled cable.

#MobProgramming

source: <http://i.imgur.com/fGlgTyg.gif>



#MOBPROGRAMMING ROLES

- ✖ **The Driver:** “no thinking, just typing”
- ✖ **The Navigator:** the main person programming
- ✖ **The Mob:** Checking the navigator, Contributing insights, Getting ready to rotate
- ✖ **The Facilitator:** Help guide the mob (Instructor)



THE ROTATION

- ✖ We will rotate every 4 min.
- ✖ Navigator -> Driver
- ✖ Driver -> Mob
- ✖ Mob -> Navigator



CONSUME FIRST VS BUILD UP





BUILD UP EXAMPLE

```
public int x;  
public int y;
```

What do you need to do next?

CONSUME FIRST EXAMPLE

```
Point p = new Point(10, 20);
```

Now what do we do?

```
public Point(int x, int y) {  
}
```

etc..



YES AND

✖ <https://www.youtube.com/watch?v=DphjhudlZis>



*We will treat
everyone with
Kindness,
Consideration, and
Respect*



KINDNESS

✖ Cognitive Science teaches us that people we treat kindly we end up liking, rather than the other way around

✖ Treat others the way you would like to be treated



CONSIDERATION

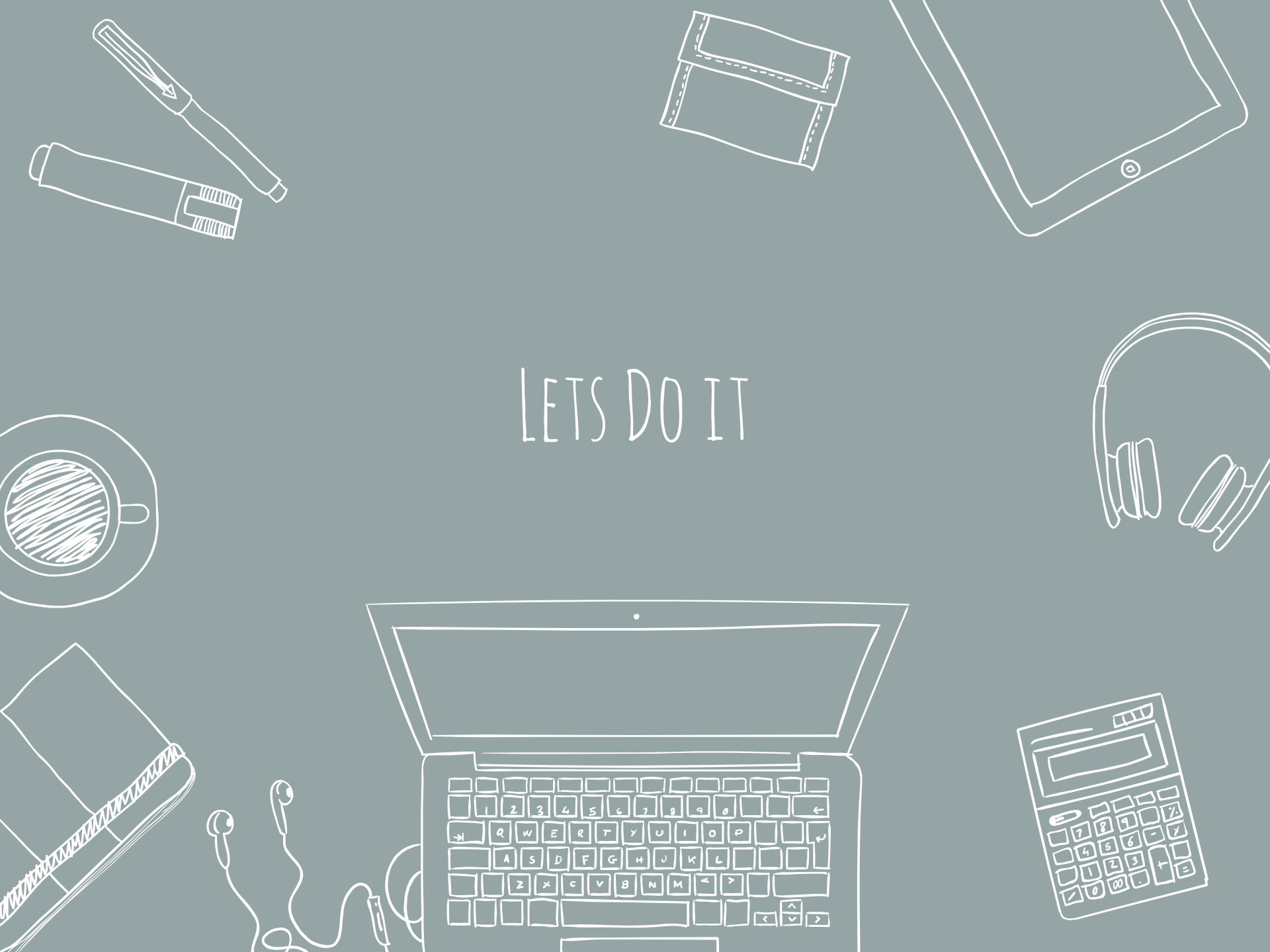
- ✖ We show consideration by listening.
- ✖ The Driver should be listening to the navigator
- ✖ The navigator should be listening to be mob.

The background features a light blue line-art illustration of various items: a computer keyboard in the top left, a USB drive, a pen and a notepad with a drawing in the top right, a smartphone on the right side, a cup of coffee on the bottom left, a spoon, a pair of glasses, and a pair of earbuds with a cable on the bottom right.

RESPECT

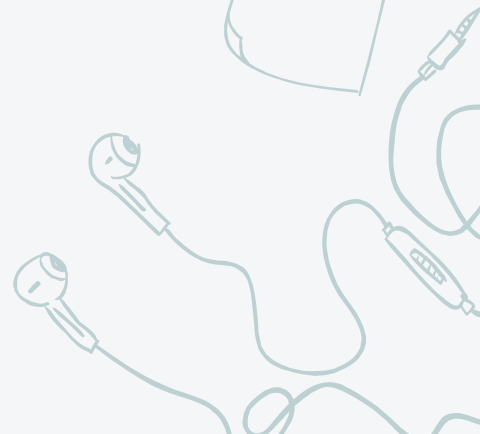
✖ “We always assume that the person who wrote the code before us did the best they could with the knowledge and circumstances they were in at the time they wrote it”

LETS DO IT





OBSERVATIONS



INTERVIEW





CREDITS

Special thanks to all the people who made and released these awesome resources for free:

- ✖ Presentation template by [SlidesCarnival](#)
- ✖ Photographs by [Unsplash](#)