

# Nguyen-3

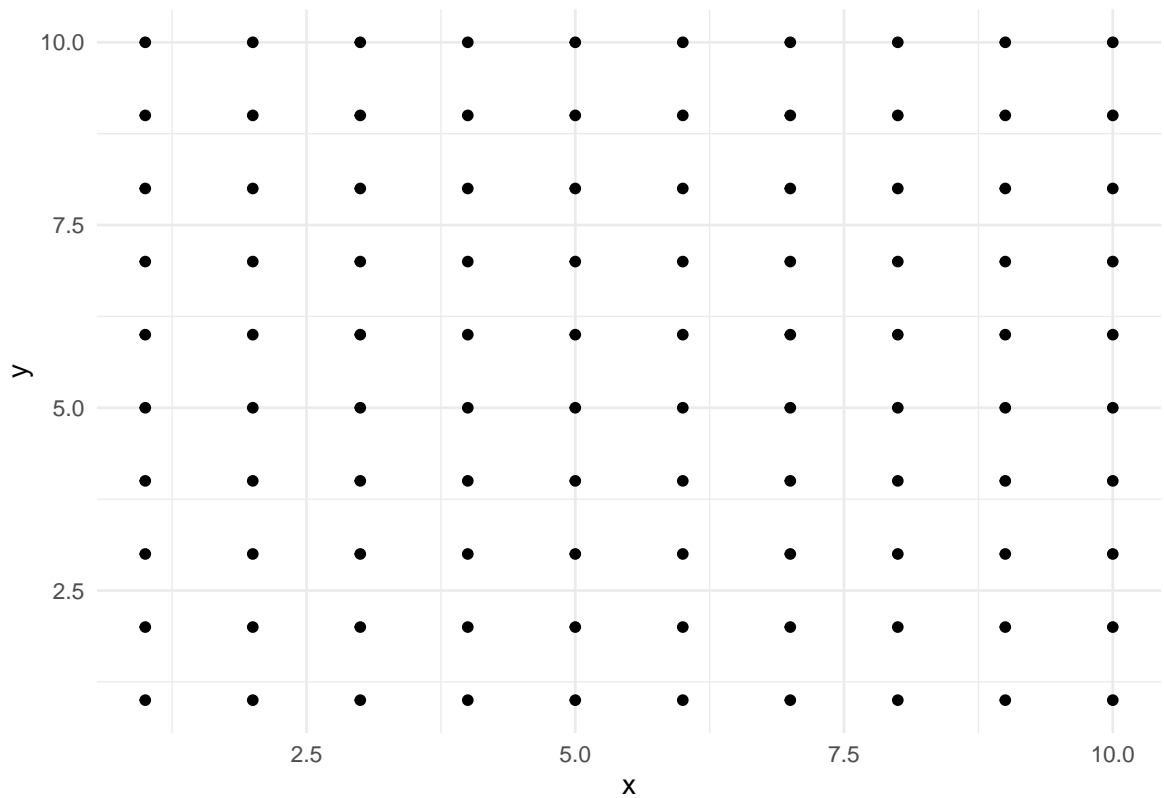
Randy Nguyen

10/12/2020

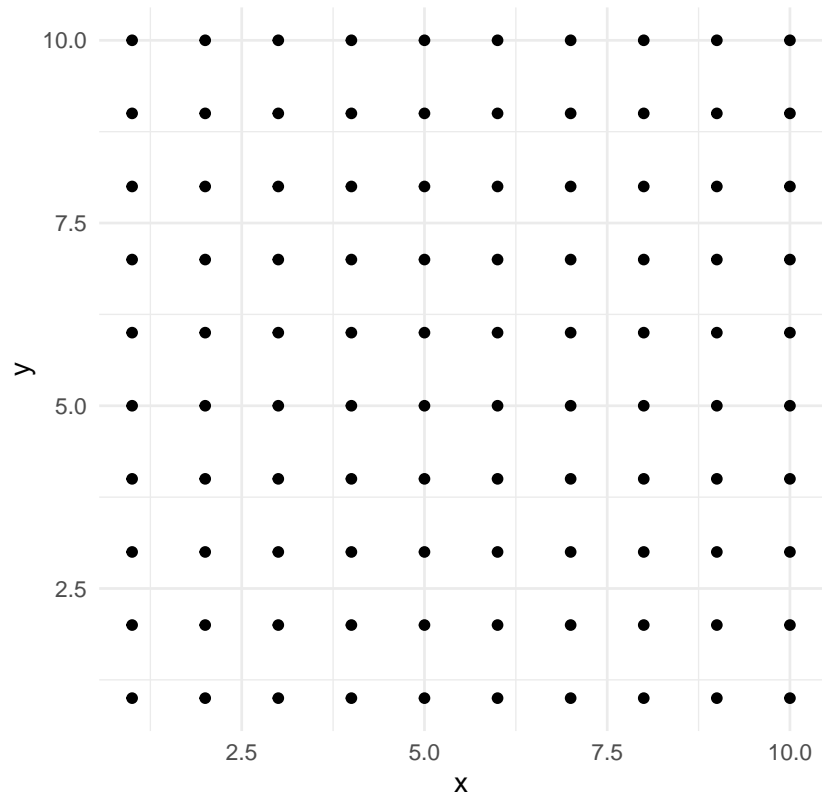
## Homework 3

### Question 1

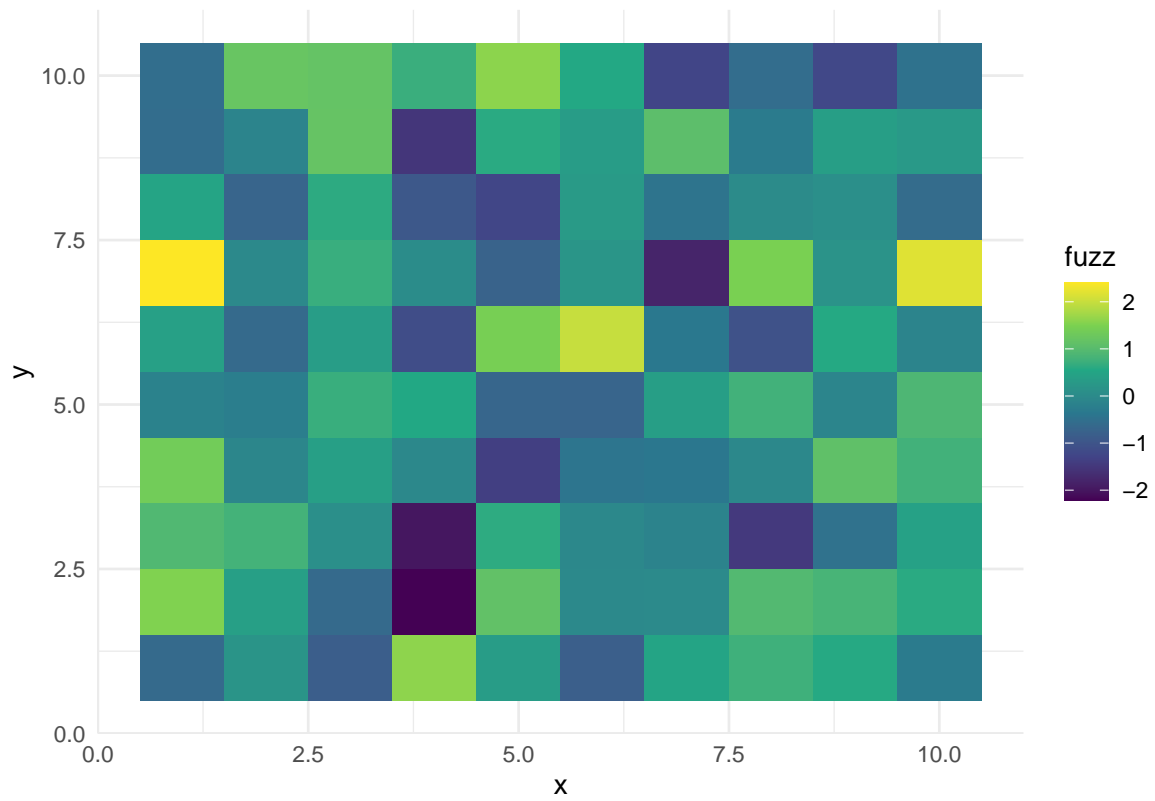
```
a. library("tidyverse")  
  
df <- expand_grid("x" = 1:10, "y" = 1:10)  
ggplot(df, aes(x, y)) +  
  geom_point() +  
  theme_minimal()
```



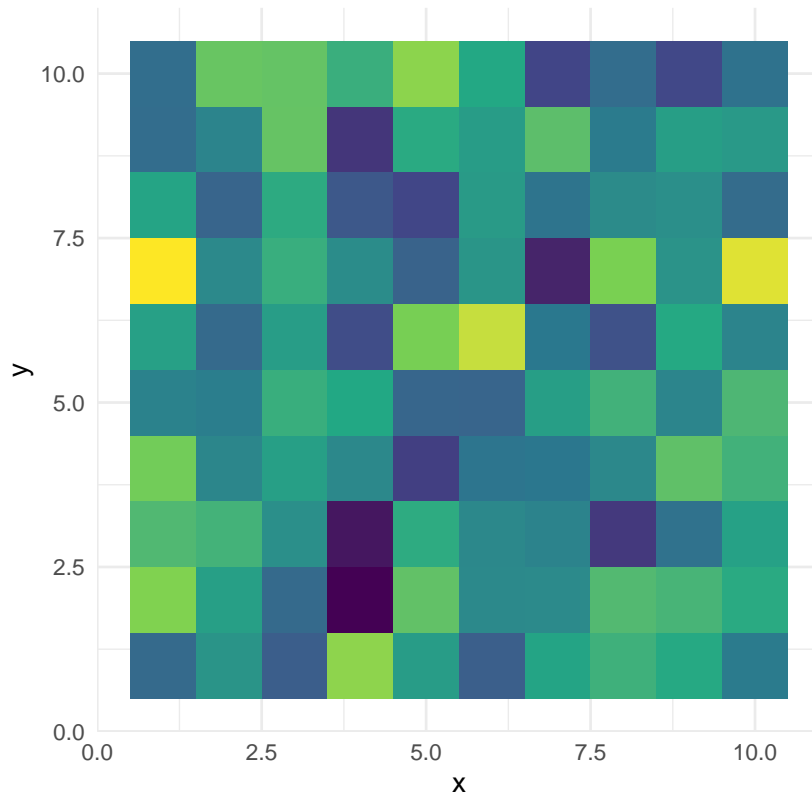
b. `ggplot(df, aes(x, y)) +  
 geom_point() +  
 theme_minimal() +  
 coord_equal()`



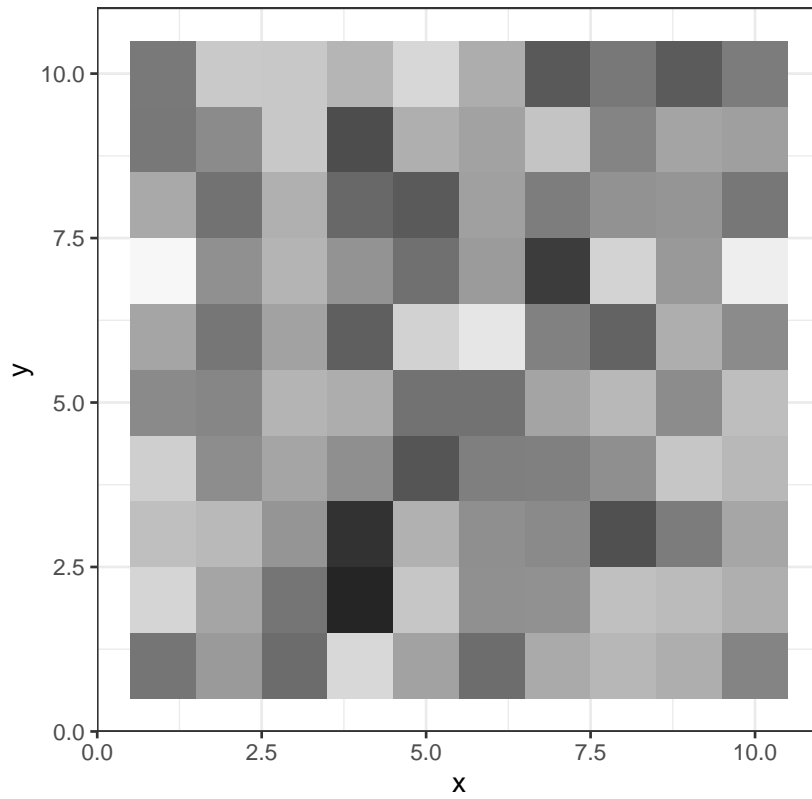
c. `set.seed(1)  
fuzz <- rnorm(nrow(df))  
ggplot(df, aes(x, y, fill = fuzz)) +  
 theme_minimal() +  
 geom_tile()`



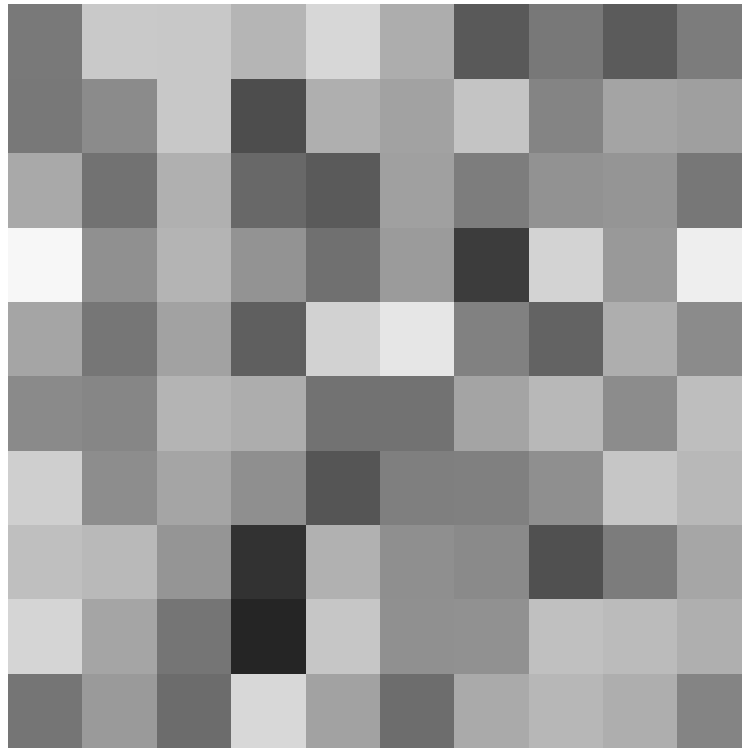
```
d. set.seed(1)
fuzz <- rnorm(nrow(df))
ggplot(df, aes(x, y, fill = fuzz)) +
  theme_minimal() +
  geom_tile() +
  theme(legend.position="none") +
  coord_equal()
```



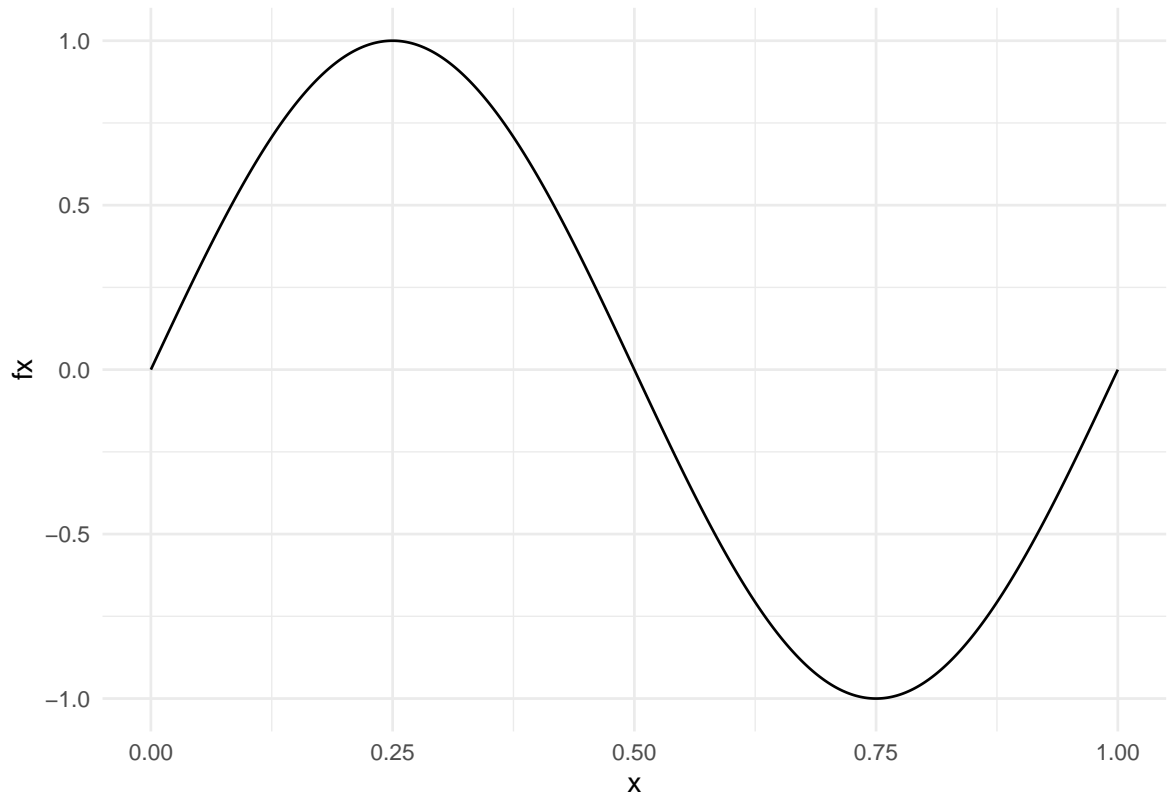
```
e. set.seed(1)
fuzz <- rnorm(nrow(df))
ggplot(df, aes(x, y, fill = fuzz)) +
  theme_bw() +
  geom_tile() +
  coord_equal() +
  theme(legend.position="none") +
  scale_fill_distiller(palette = "Greys")
```



```
f. set.seed(1)
fuzz <- rnorm(nrow(df))
ggplot(df, aes(x, y, fill = fuzz)) +
  geom_tile() +
  coord_equal() +
  scale_fill_distiller(palette = "Greys") +
  ylab(NULL) +
  xlab(NULL) +
  theme_void() +
  theme(legend.position="none")
```



```
g. x <- seq(0, 1, 1e-4)
fx <- sin(2*pi*x)
sine <- data.frame("x" = x, "y" = fx)
ggplot(sine, aes(x, fx)) +
  theme_minimal() +
  geom_line()
```



```
h. x <- seq(0, 1, 1e-4)
fx <- sin(2*pi*x) # wrong geom!!!
sine <- data.frame("x" = x, "y" = fx)
ggplot(sine, aes(x, fx)) +
  theme_minimal() +
  geom_line(color = "gray50", size = 5) +
  geom_line(color = "green")
```

