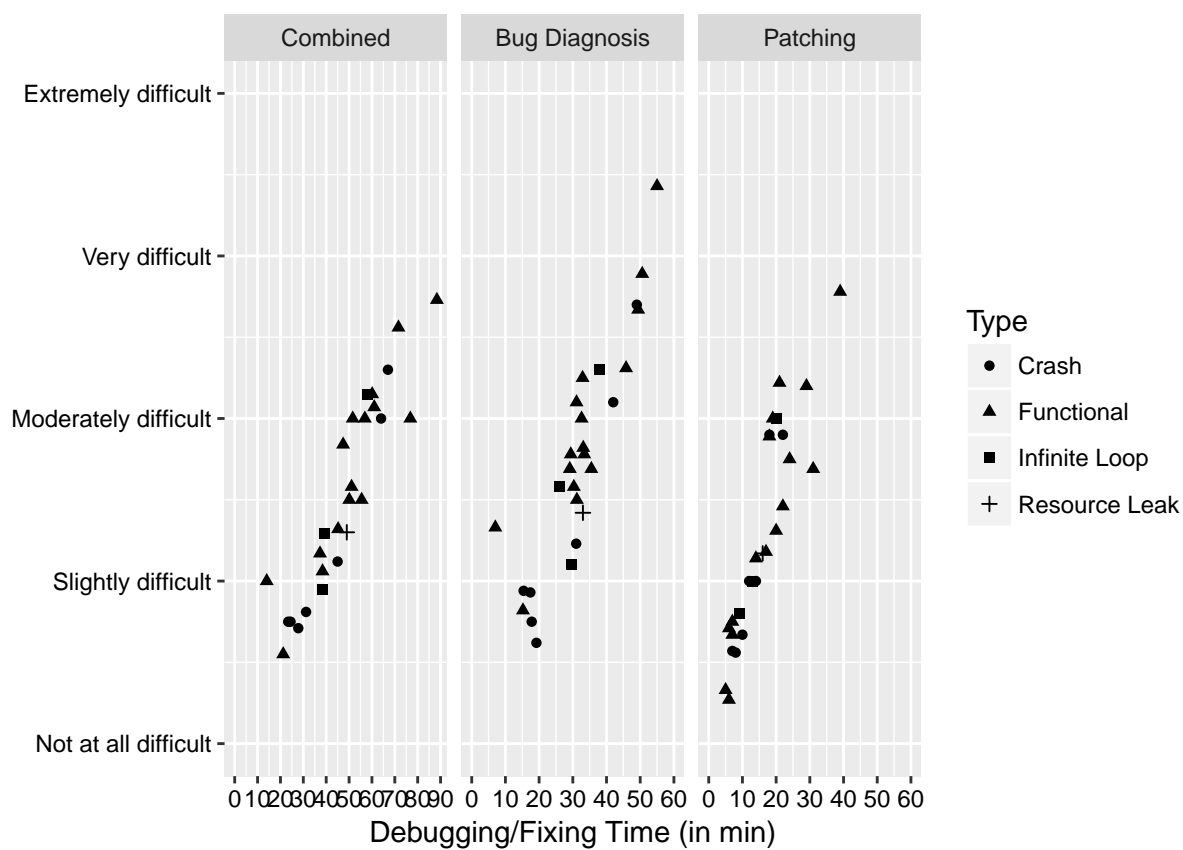
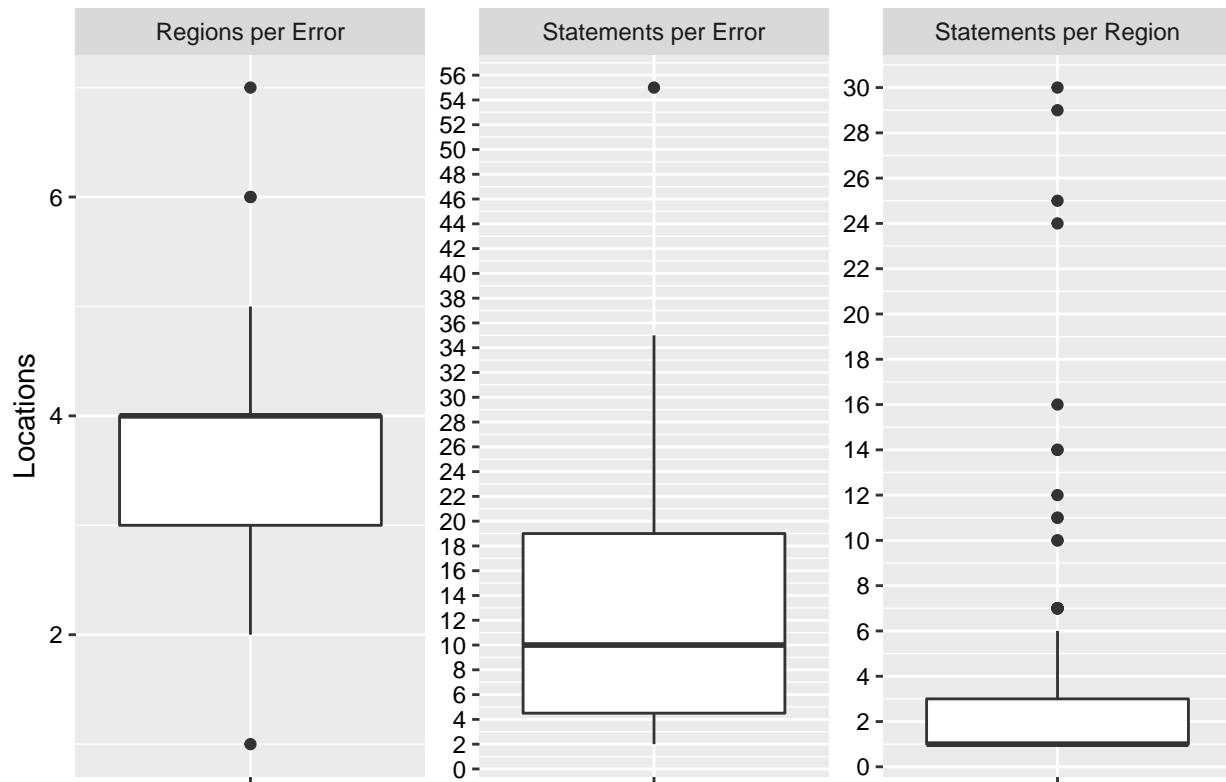


DebugStudy

```
## Loading required package: ggplot2
## Warning: package 'ggplot2' was built under R version 3.2.5
## Loading required package: scales
## Warning: package 'scales' was built under R version 3.2.5
## Loading required package: stringr
## Warning: package 'stringr' was built under R version 3.2.5
```





```
## Saving 5.2 x 3.6 in image
```

Correlation between Rank and Bug Diagnosis Time

```
## [1] -0.002197802
```

Correlation between Rank and Bug Diagnosis Confidence

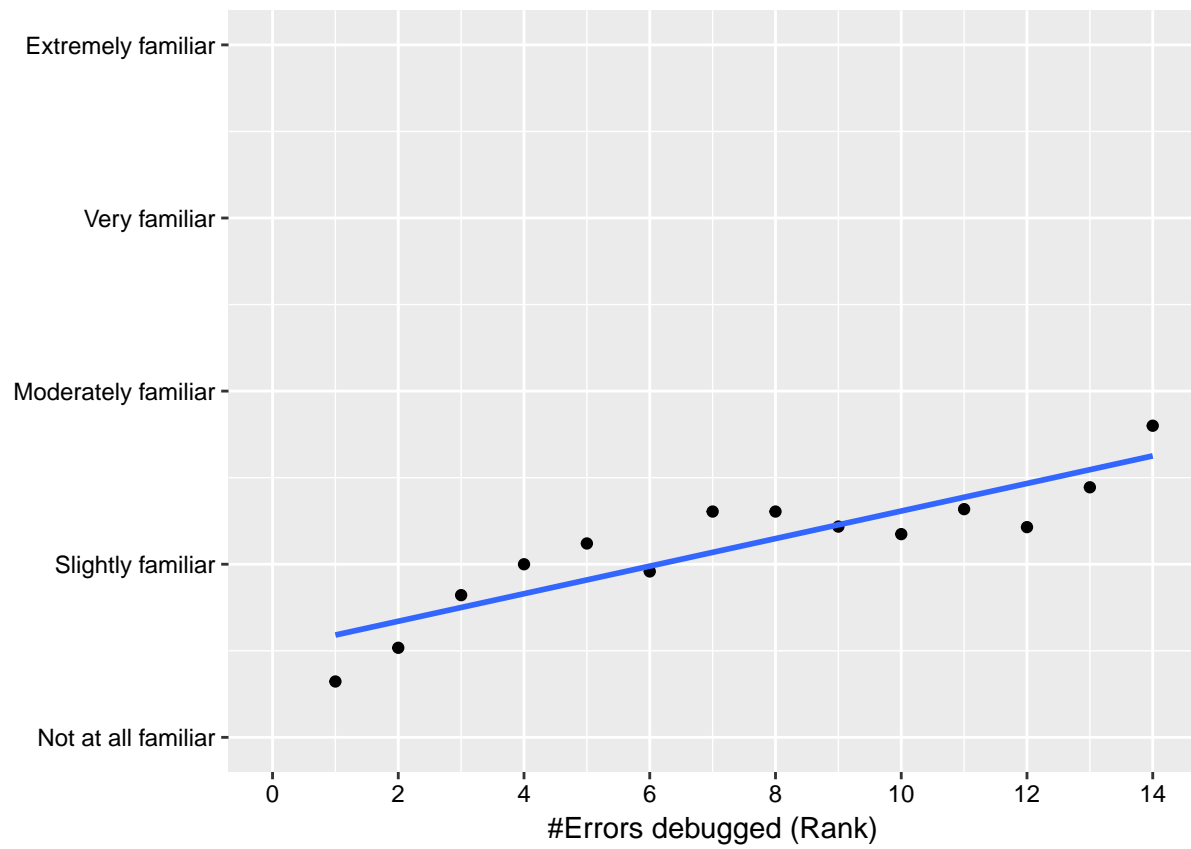
```
## [1] -0.05720576
```

Correlation between Rank and Bug Diagnosis Difficulty

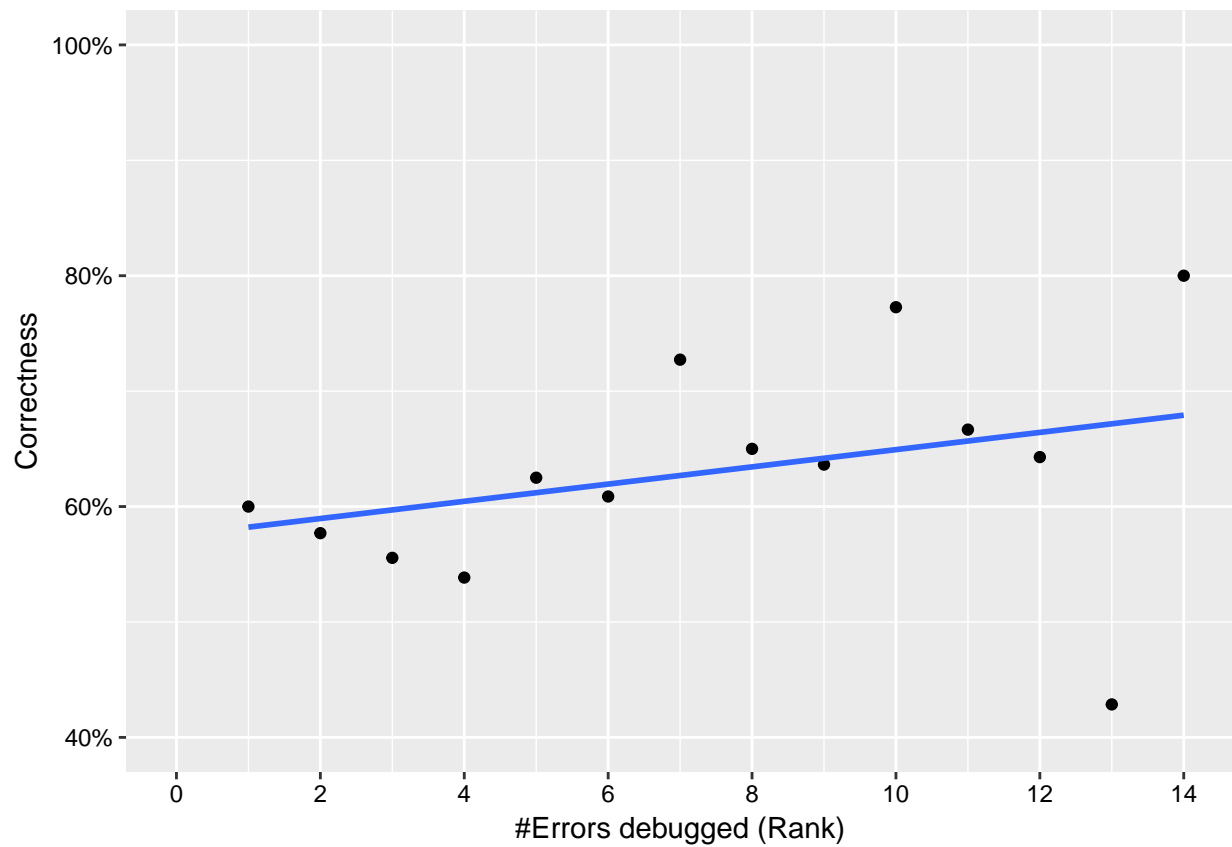
```
## [1] 0.08571429
```

Correlation between Rank and Code Familiarity

```
## [1] 0.8888894
```



Saving 3.9 x 2.28 in image



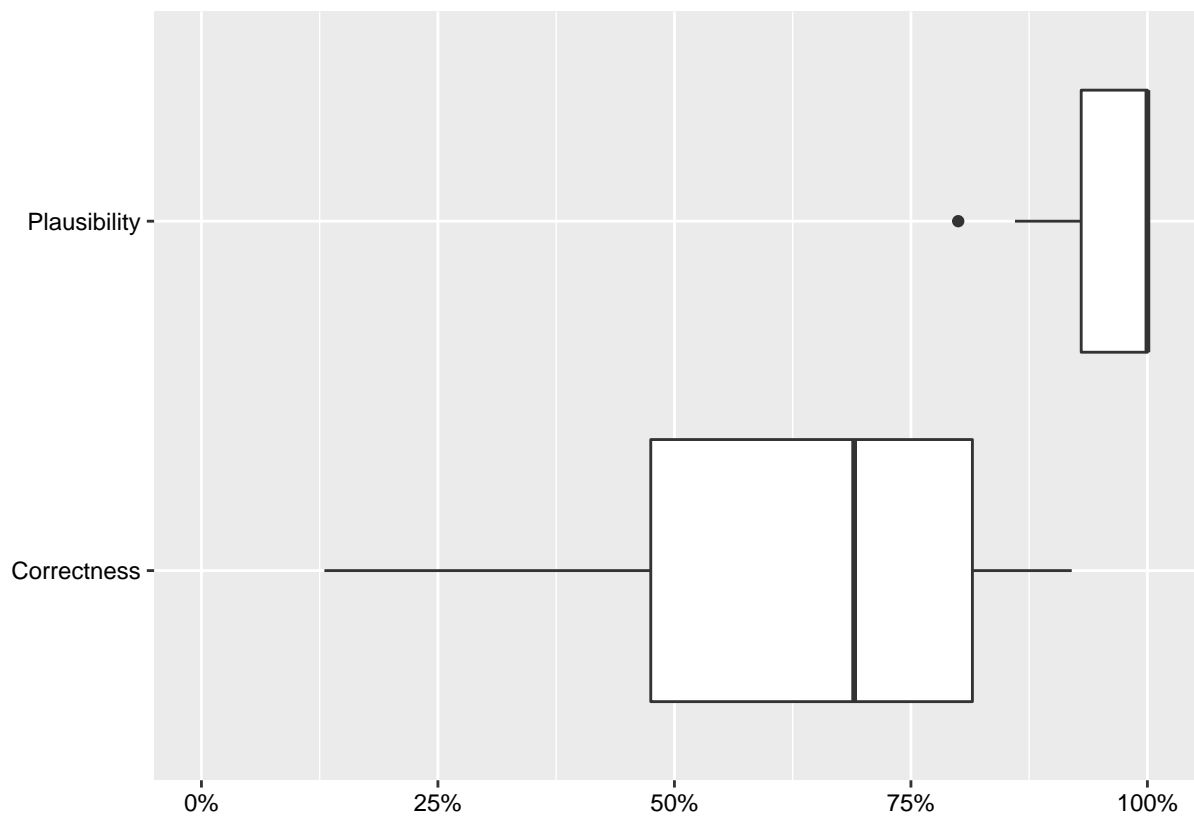
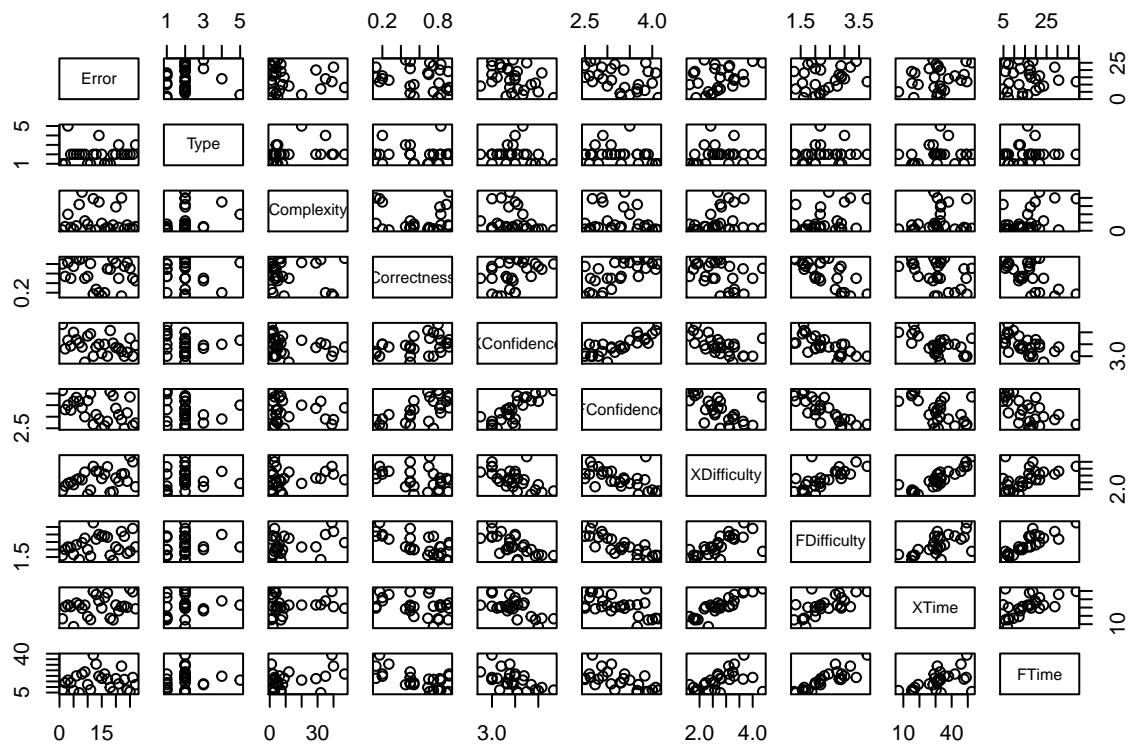
```
## Saving 3 x 2.25 in image
```

Correlation between Patch Confidence and Patch Correctness

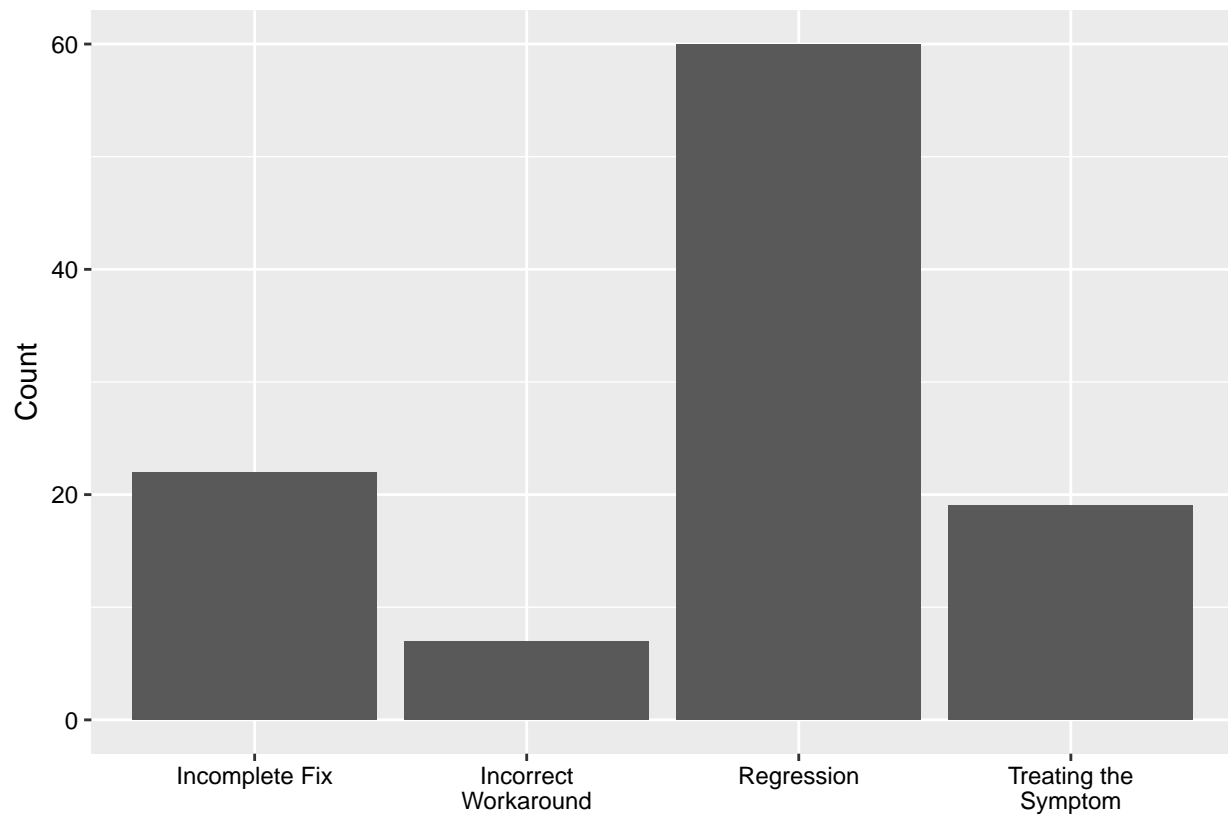
```
## [1] 0.6600872
```

Correlation between Patch Difficulty and Patch Correctness

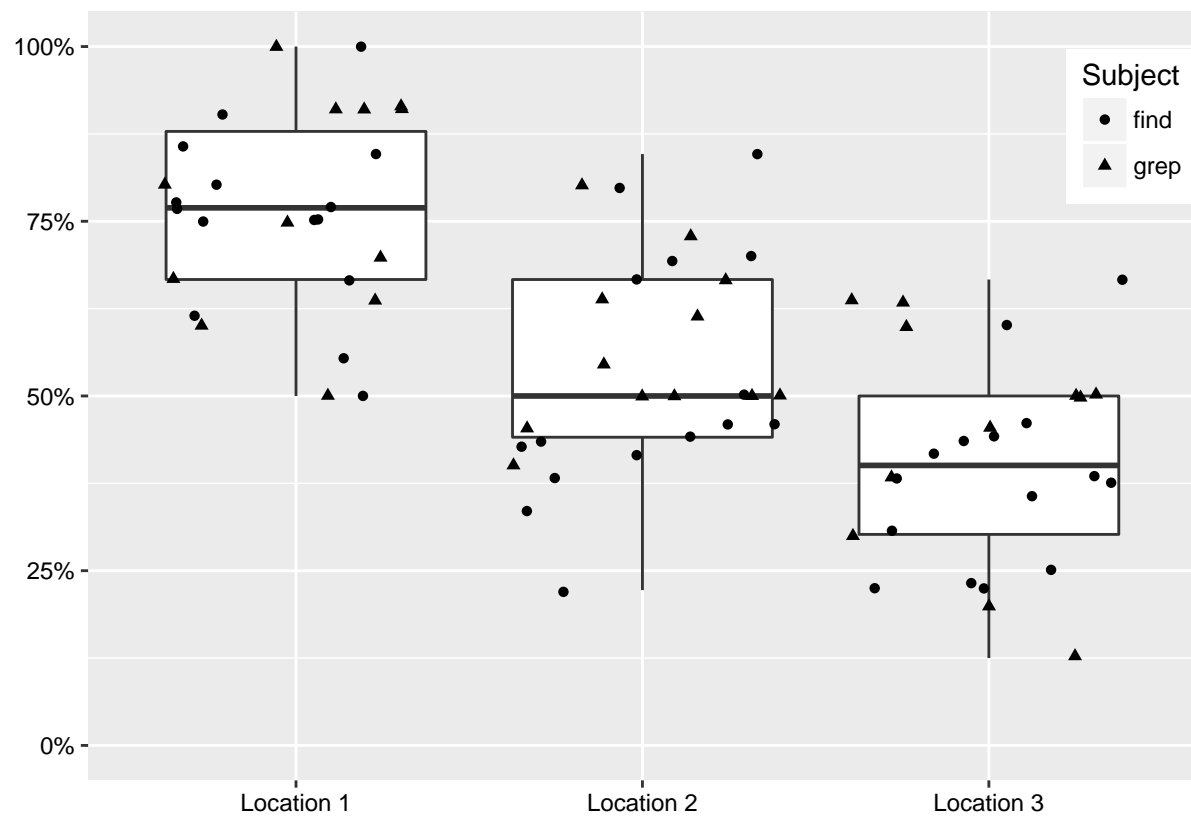
```
## [1] -0.6274699
```



Saving 4.55 x 1.75 in image

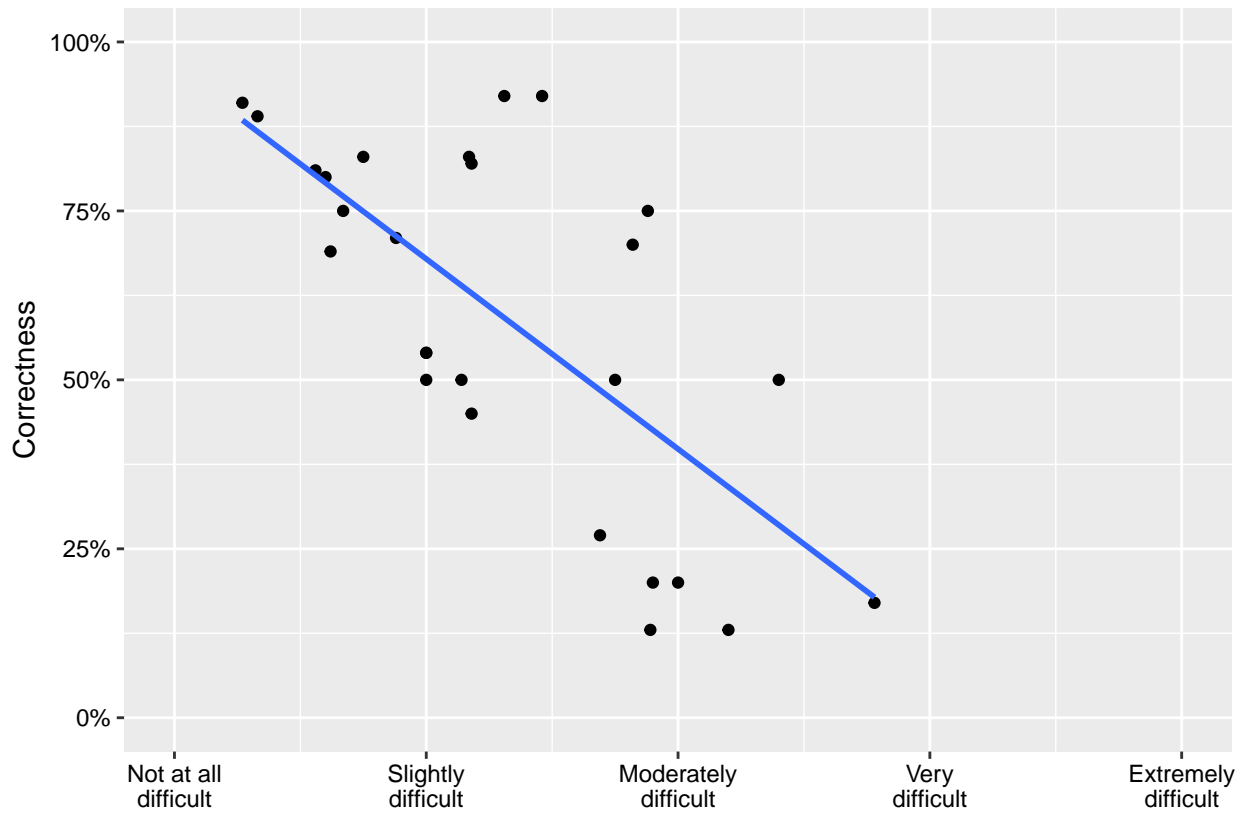


Saving 4.55 x 2.1 in image

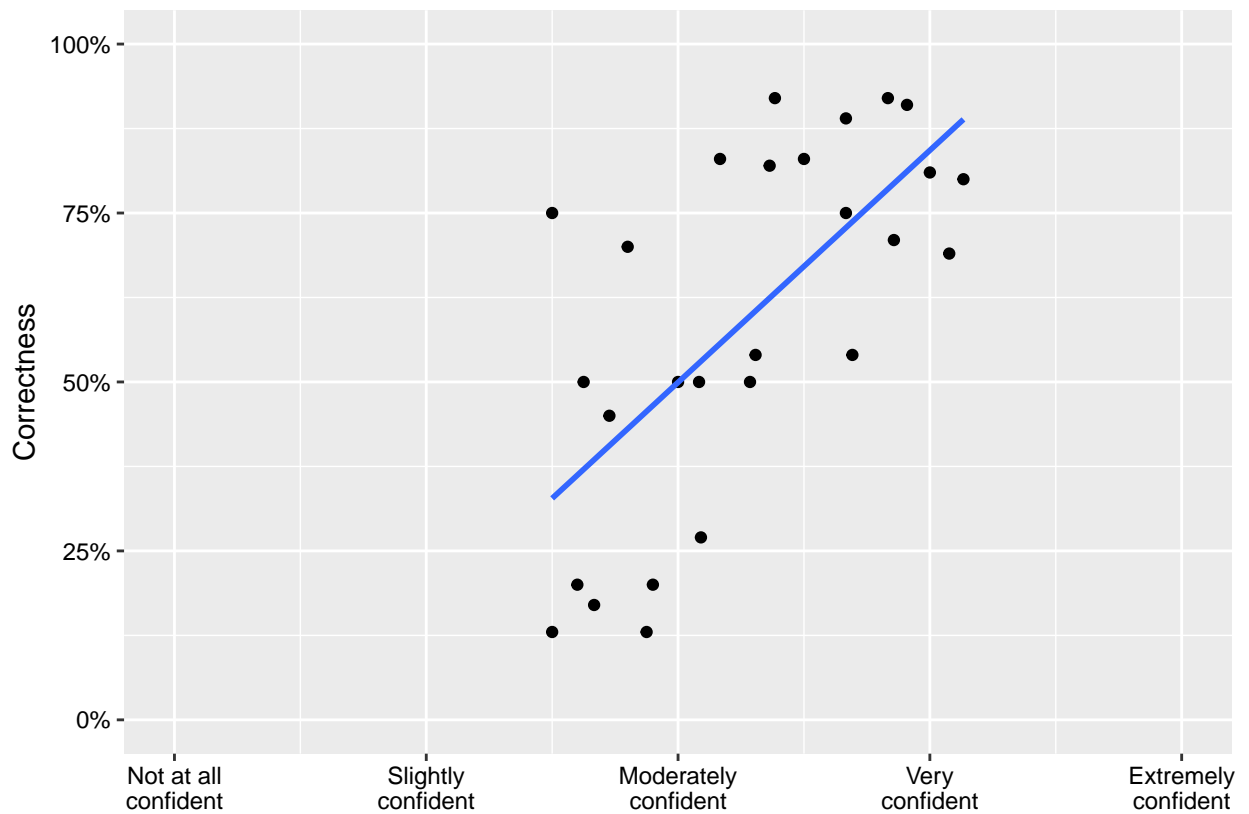


```
## Saving 5.52 x 2.55 in image
```

```
## Warning: Removed 1 rows containing missing values (geom_point).
```

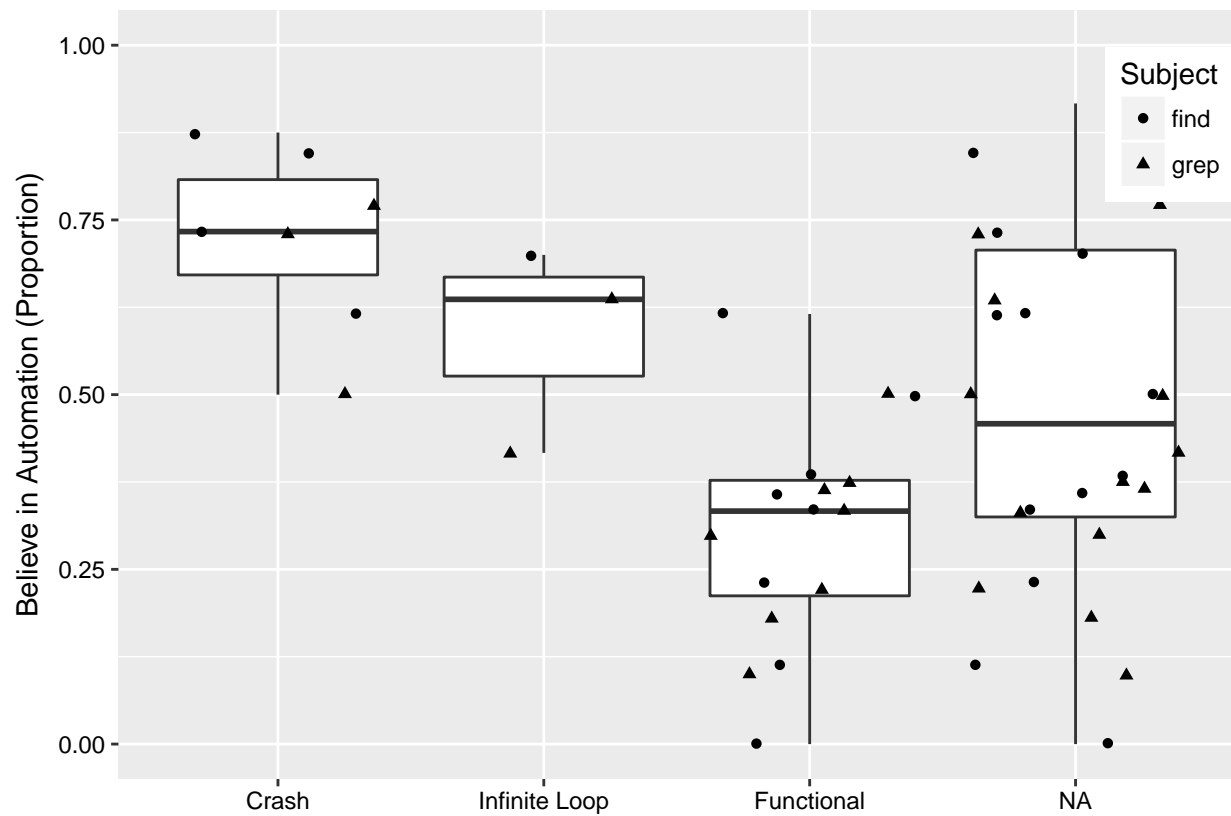


```
## Saving 3.25 x 2.25 in image
```



```
## Saving 3.25 x 2.25 in image
```

```
automate <- na.omit(read.table("automate.csv", sep="," ,header=TRUE, comment.char="#"))
automate$Type <- factor(automate$Type, levels=c("Overall, Resource Leak", "Crash", "Infinite Loop", "Fun
ggplot(automate, aes(x=Type,y=Diagnosis)) +
  geom_boxplot() +
  geom_jitter(aes(shape=Subject)) +
  xlab("") +
  ylab("Believe in Automation (Proportion)") +
  ylim(c(0,1)) +
  theme(axis.text.x = element_text(colour = "black"),
        axis.text.y = element_text(colour = "black"),
        legend.justification = c(1, 0), legend.position = c(1,0.75))
```

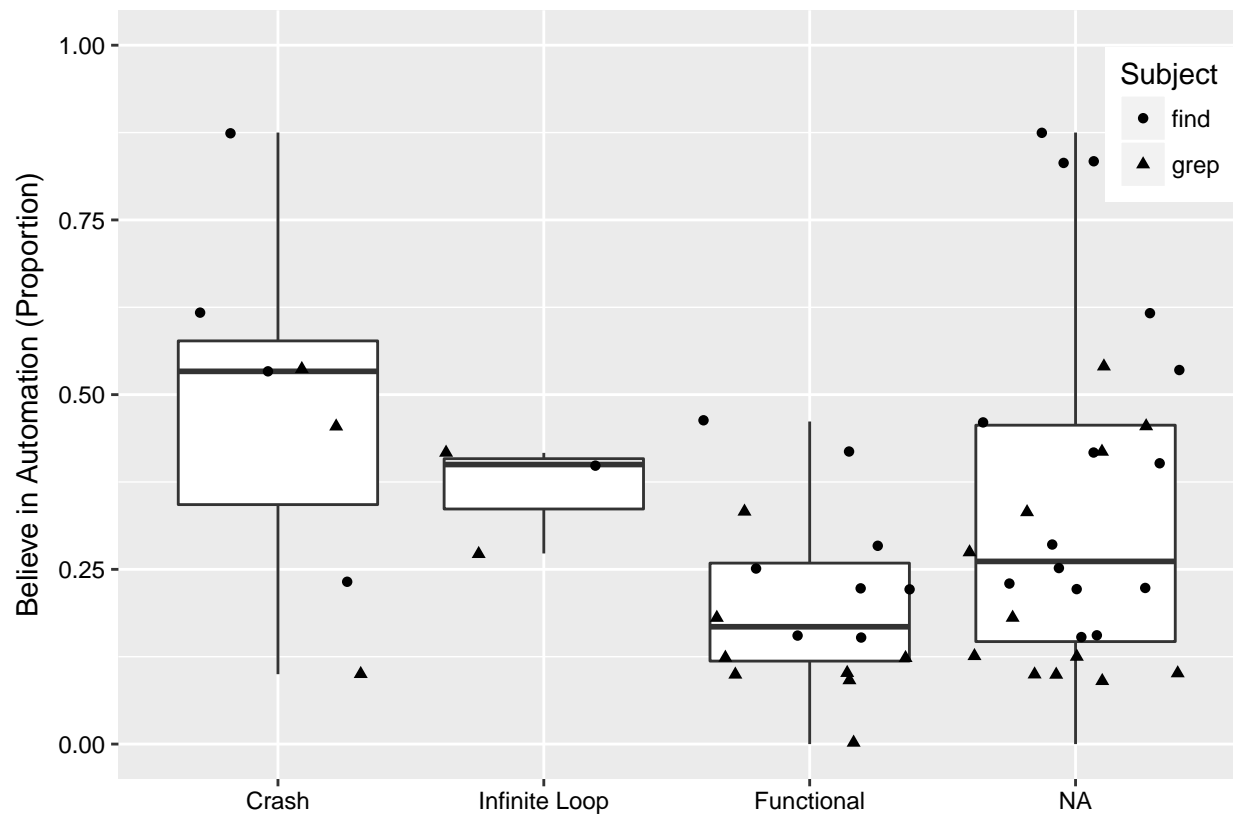
```
ggsave(filename = "Figure12.pdf",height=3,scale=0.95)
```

```
## Saving 6.17 x 2.85 in image
```

```
## Warning: Removed 2 rows containing missing values (geom_point).
```

```
ggplot(automate, aes(x=Type,y=Repair)) +
  geom_boxplot() +
  geom_jitter(aes(shape=Subject)) +
  xlab("") +
  ylab("Believe in Automation (Proportion)") +
  ylim(c(0,1)) +
  theme(axis.text.x = element_text(colour = "black"),
        axis.text.y = element_text(colour = "black"),
        legend.justification = c(1, 0), legend.position = c(1,0.75))
```

```
## Warning: Removed 1 rows containing missing values (geom_point).
```



```
ggsave(filename = "Figure13.pdf",height=3,scale=0.95)
```

```
## Saving 6.17 x 2.85 in image
```

```
## Warning: Removed 1 rows containing missing values (geom_point).
```