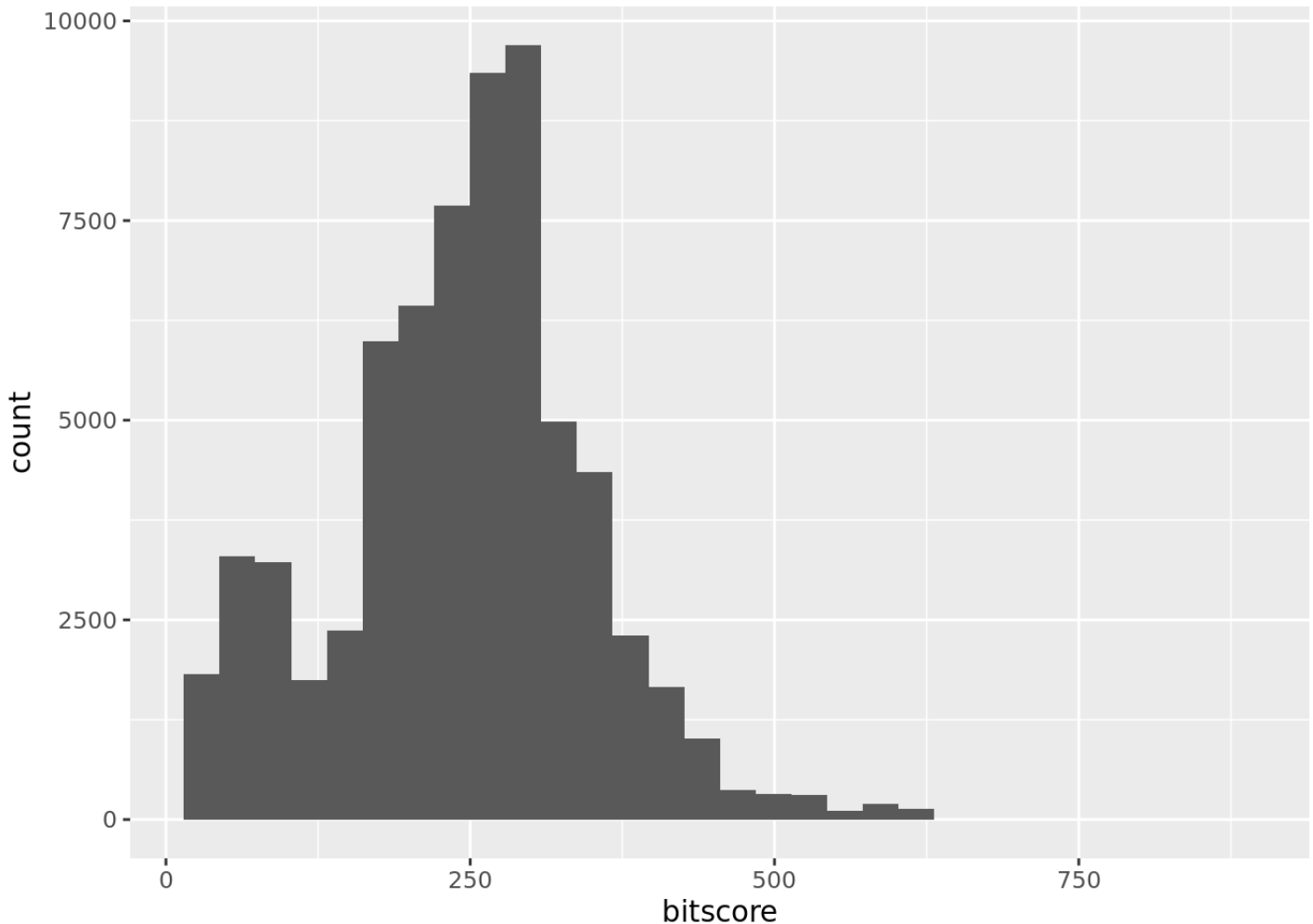# Class 13: AWS

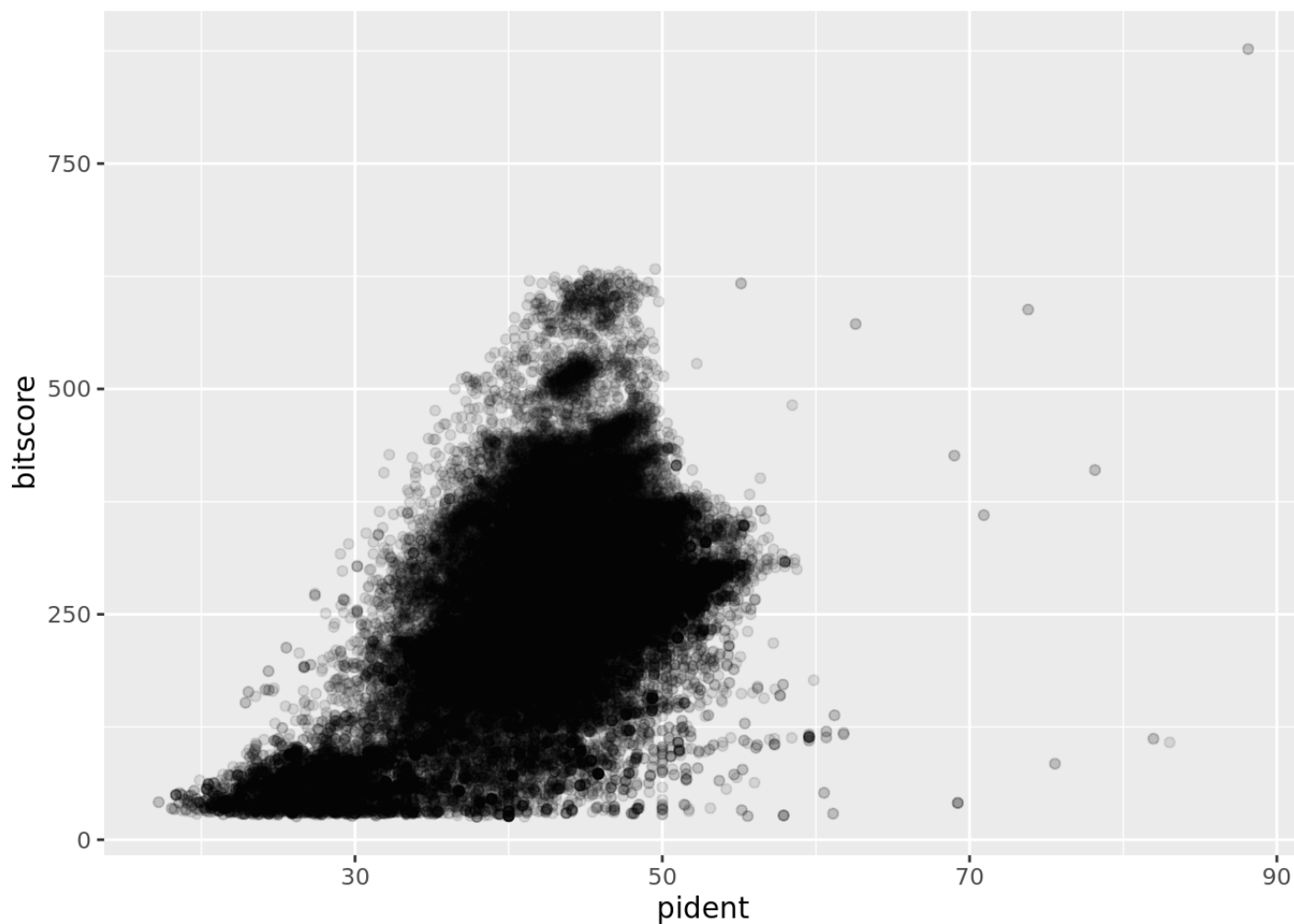## Shitian Li (PID: A13294481)

11/10/2021

Load the file:

```
mm.second.x.zebrafish <- read.delim("~/work/mm-second.x.zebrafish.tsv", header=FALSE)
colnames(mm.second.x.zebrafish) <- c("qseqid", "sseqid", "pident", "length", "mismatc
h", "gapopen", "qstart", "qend", "sstart", "send", "evalue", "bitscore")
```

Create a histogram:

```
library(ggplot2)
ggplot(mm.second.x.zebrafish, aes(bitscore)) +
  geom_histogram(bins = 30)
```



```
ggplot(mm.second.x.zebrafish, aes(pident, bitscore)) + geom_point(alpha=0.1)
```

```
ggplot(mm.second.x.zebrafish, aes((mm.second.x.zebrafish$pident * (mm.second.x.zebraf
ish$qend - mm.second.x.zebrafish$qstart)), bitscore)) + geom_point(alpha=0.1) + geom_
smooth()
```

```
## Warning: Use of `mm.second.x.zebrafish$pident` is discouraged. Use `pident`
## instead.
```

```
## Warning: Use of `mm.second.x.zebrafish$qend` is discouraged. Use `qend` instead.
```

```
## Warning: Use of `mm.second.x.zebrafish$qstart` is discouraged. Use `qstart`
## instead.
```

```
## Warning: Use of `mm.second.x.zebrafish$pident` is discouraged. Use `pident`
## instead.
```

```
## Warning: Use of `mm.second.x.zebrafish$qend` is discouraged. Use `qend` instead.
```

```
## Warning: Use of `mm.second.x.zebrafish$qstart` is discouraged. Use `qstart`
## instead.
```

```
## `geom_smooth()` using method = 'gam' and formula 'y ~ s(x, bs = "cs")'
```