

# Class 13: UNIX

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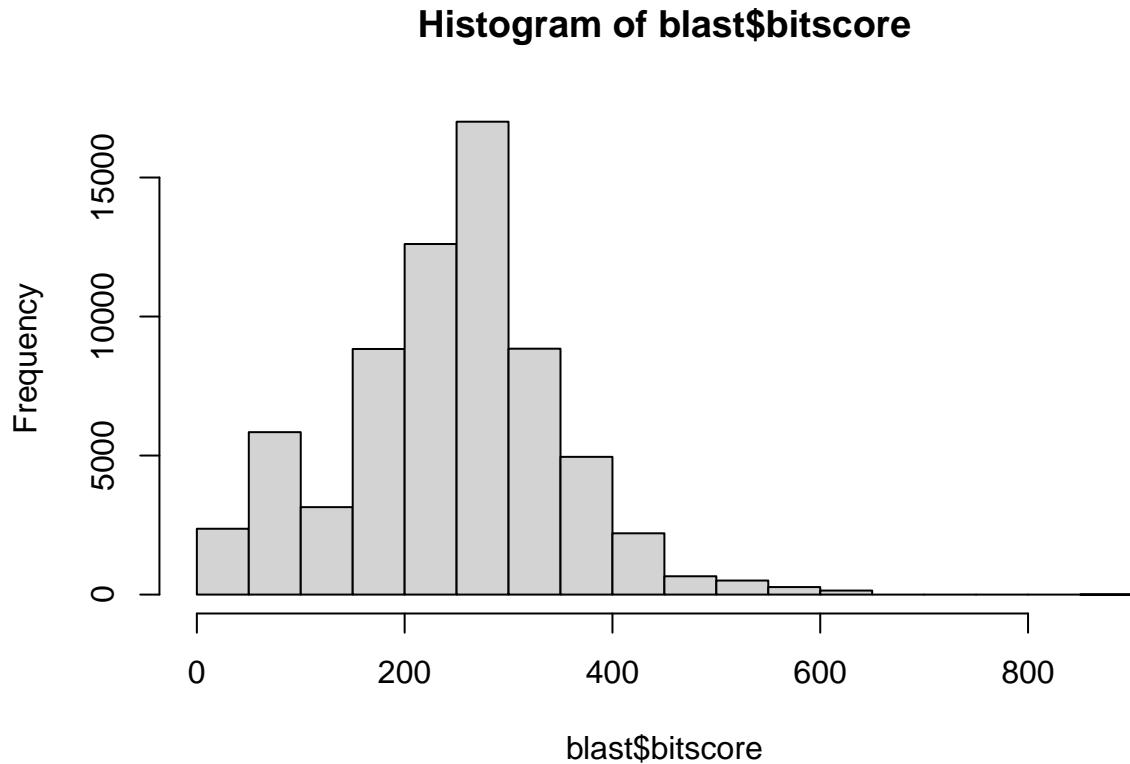
11/9/21

## UNIX

```
col <- c("qseqid", "sseqid", "pident", "length", "mismatch", "gapopen", "qstart", "qend", "sstart", "se  
blast <- read.table("mm-second.x.zebrafish.tsv", col.names=col)
```

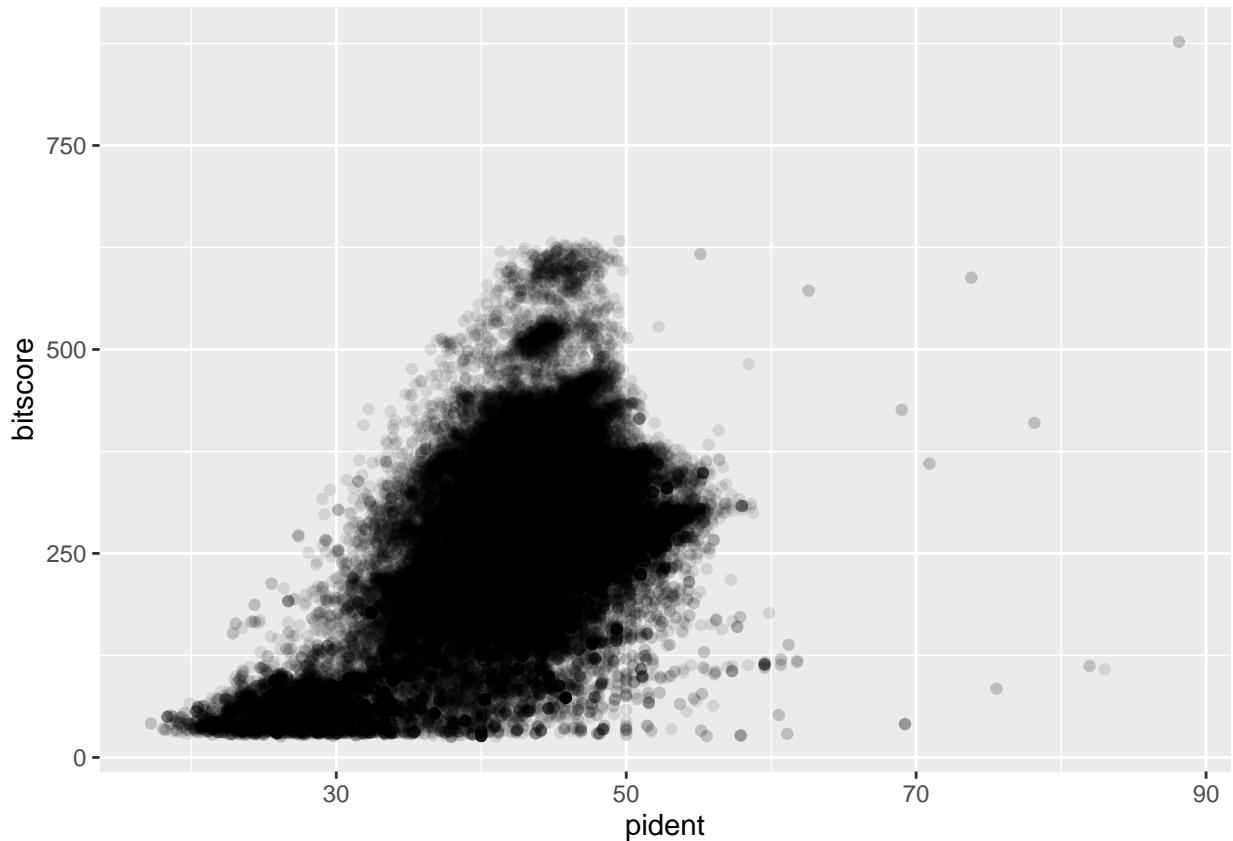
Make a histogram of \$bitscore values.

```
hist(blast$bitscore, breaks=30)
```



Make a nicer figure with ggplot.

```
# install.packages("ggplot2")
library(ggplot2)
ggplot(blast, aes(pident, bitscore)) + geom_point(alpha=0.1)
```



```
ggplot(blast, aes((blast$pident * (blast$qend - blast$qstart)), bitscore)) +
  geom_point(alpha=0.1) +
  geom_smooth()
```

```
## Warning: Use of 'blast$pident' is discouraged. Use 'pident' instead.
```

```
## Warning: Use of 'blast$qend' is discouraged. Use 'qend' instead.
```

```
## Warning: Use of 'blast$qstart' is discouraged. Use 'qstart' instead.
```

```
## Warning: Use of 'blast$pident' is discouraged. Use 'pident' instead.
```

```
## Warning: Use of 'blast$qend' is discouraged. Use 'qend' instead.
```

```
## Warning: Use of 'blast$qstart' is discouraged. Use 'qstart' instead.
```

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

