

# Class 17

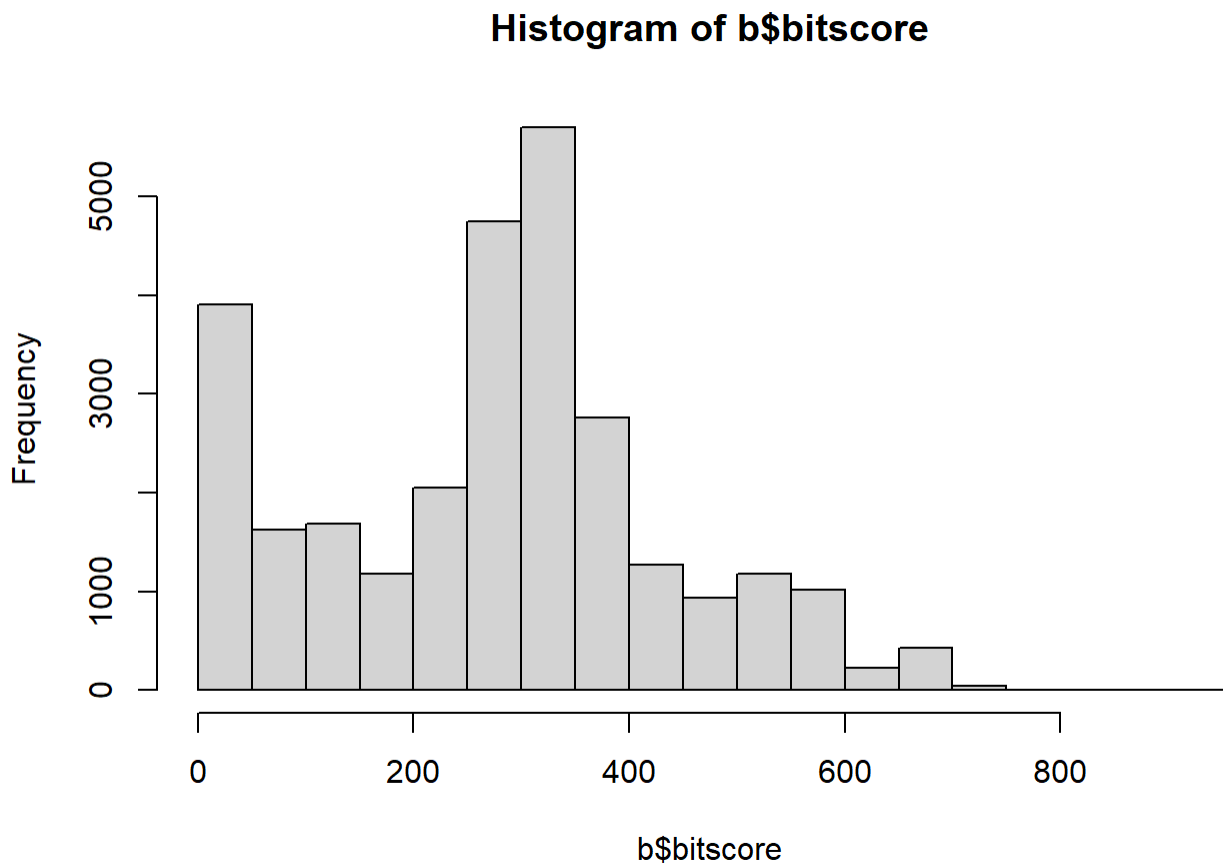
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2023-11-28

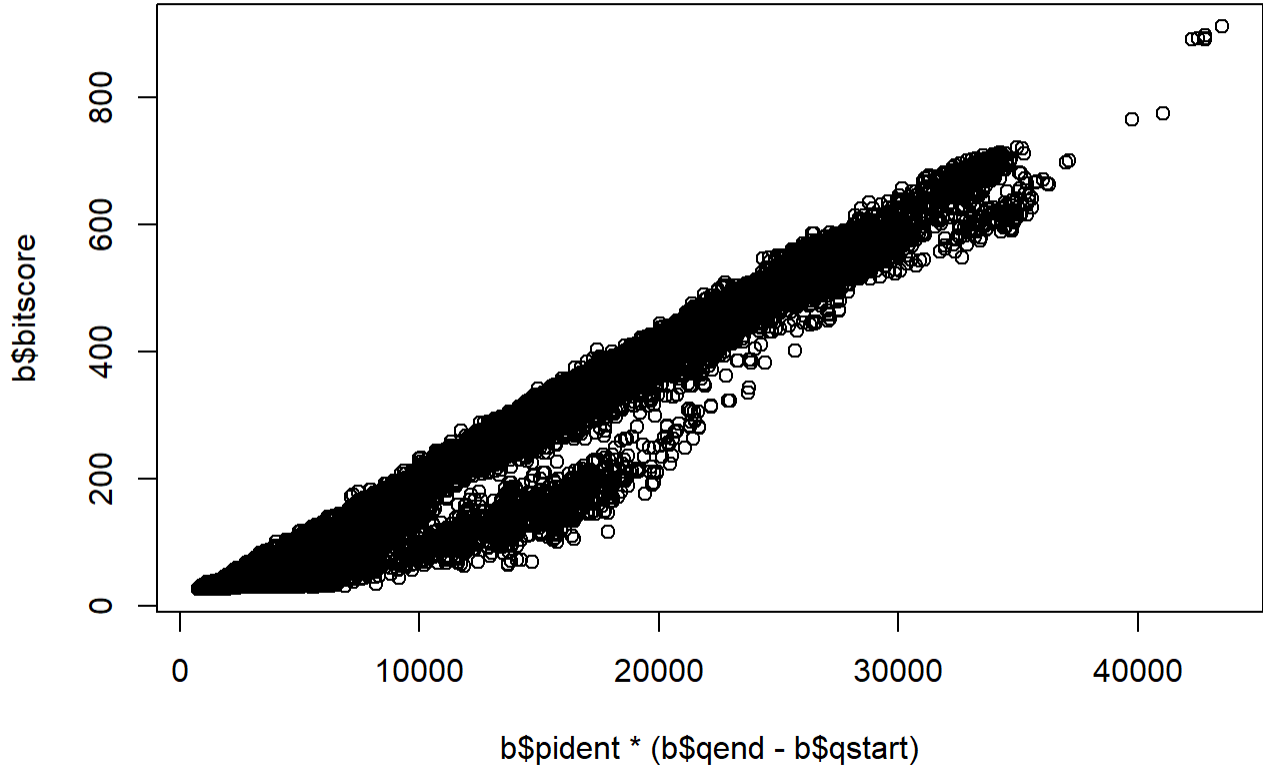
```
b <- read.table("results.tsv")

colnames(b) <- c("qseqid", "sseqid", "pident", "length", "mismatch", "gapopen", "qstart", "qend", "sstart", "send", "evaluate", "bitscore")

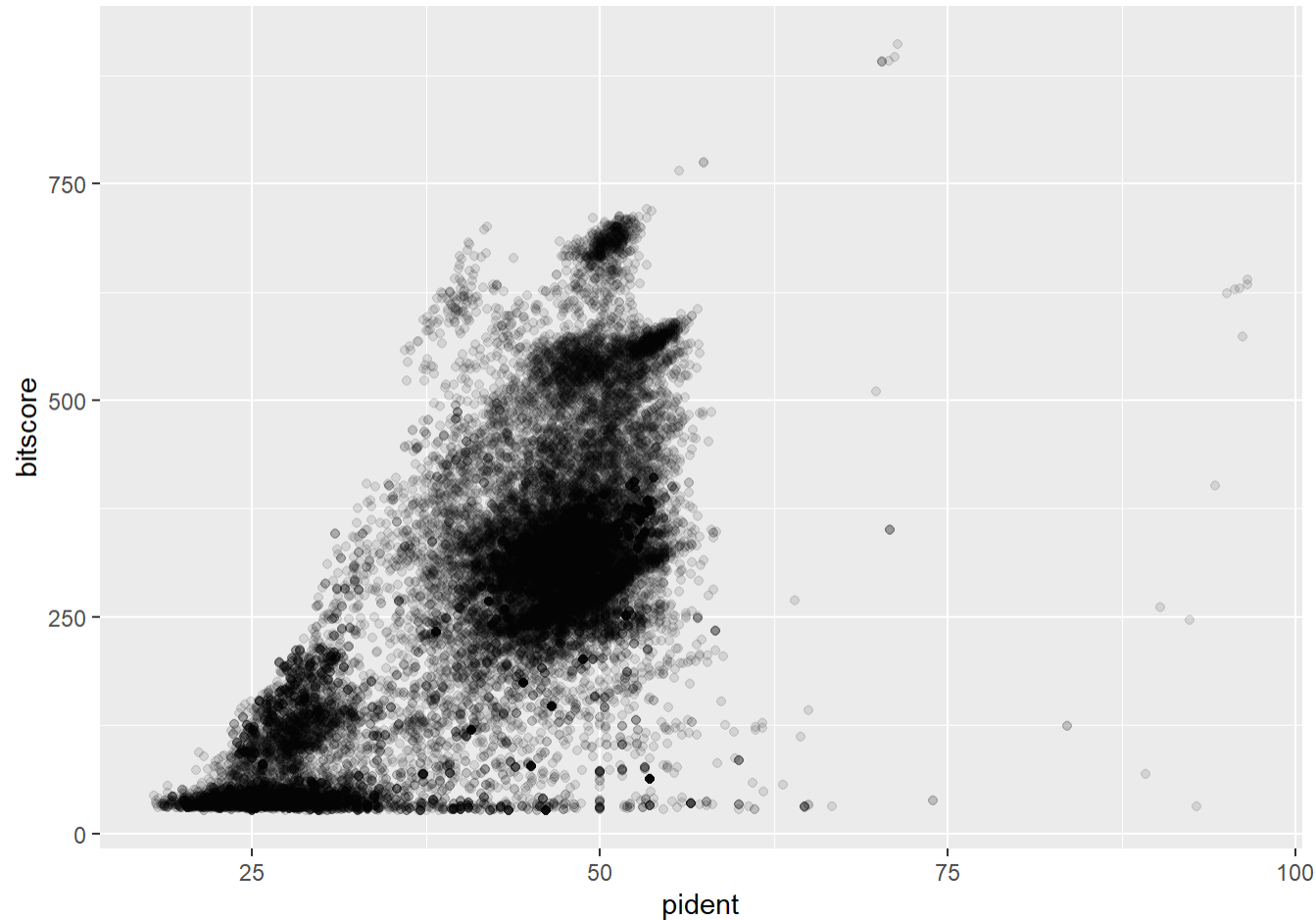
hist(b$bitscore, breaks=30)
```



```
## Asuming your blast results are stored in an object called 'b'
plot(b$pident * (b$qend - b$qstart), b$bitscore)
```



```
library(ggplot2)
ggplot(b, aes(pident, bitscore)) + geom_point(alpha=0.1)
```



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

```
## Warning: Use of `b$pident` is discouraged.
## i Use `pident` instead.

## Warning: Use of `b$qend` is discouraged.
## i Use `qend` instead.

## Warning: Use of `b$qstart` is discouraged.
## i Use `qstart` instead.

## Warning: Use of `b$pident` is discouraged.
## i Use `pident` instead.

## Warning: Use of `b$qend` is discouraged.
## i Use `qend` instead.

## Warning: Use of `b$qstart` is discouraged.
## i Use `qstart` instead.

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

