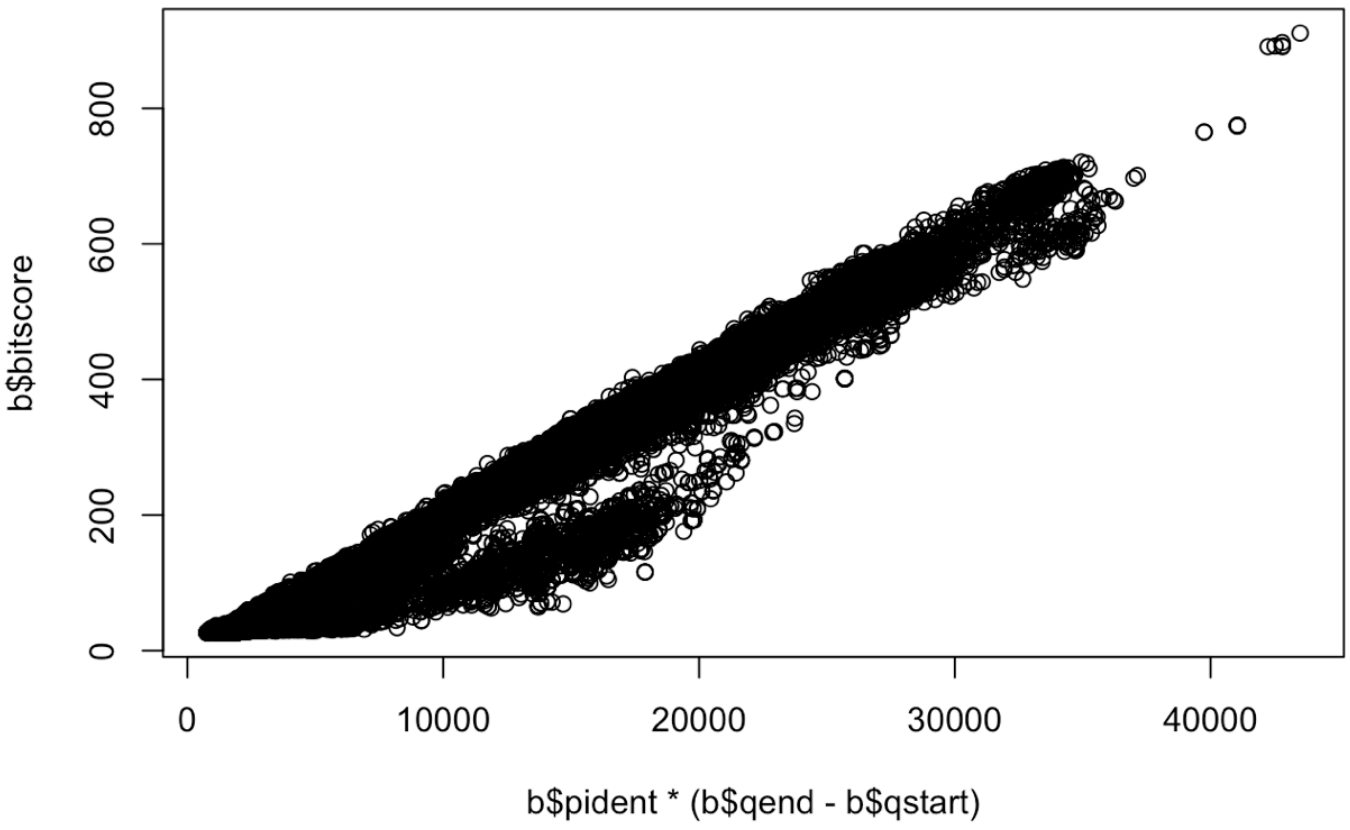
extra cred

```
b <- read.table("mm-second.x.zebrafish.tsv")
colnames(b) <- c("qseqid", "sseqid", "pident", "length", "mismatch", "gapopen", "qsta
```

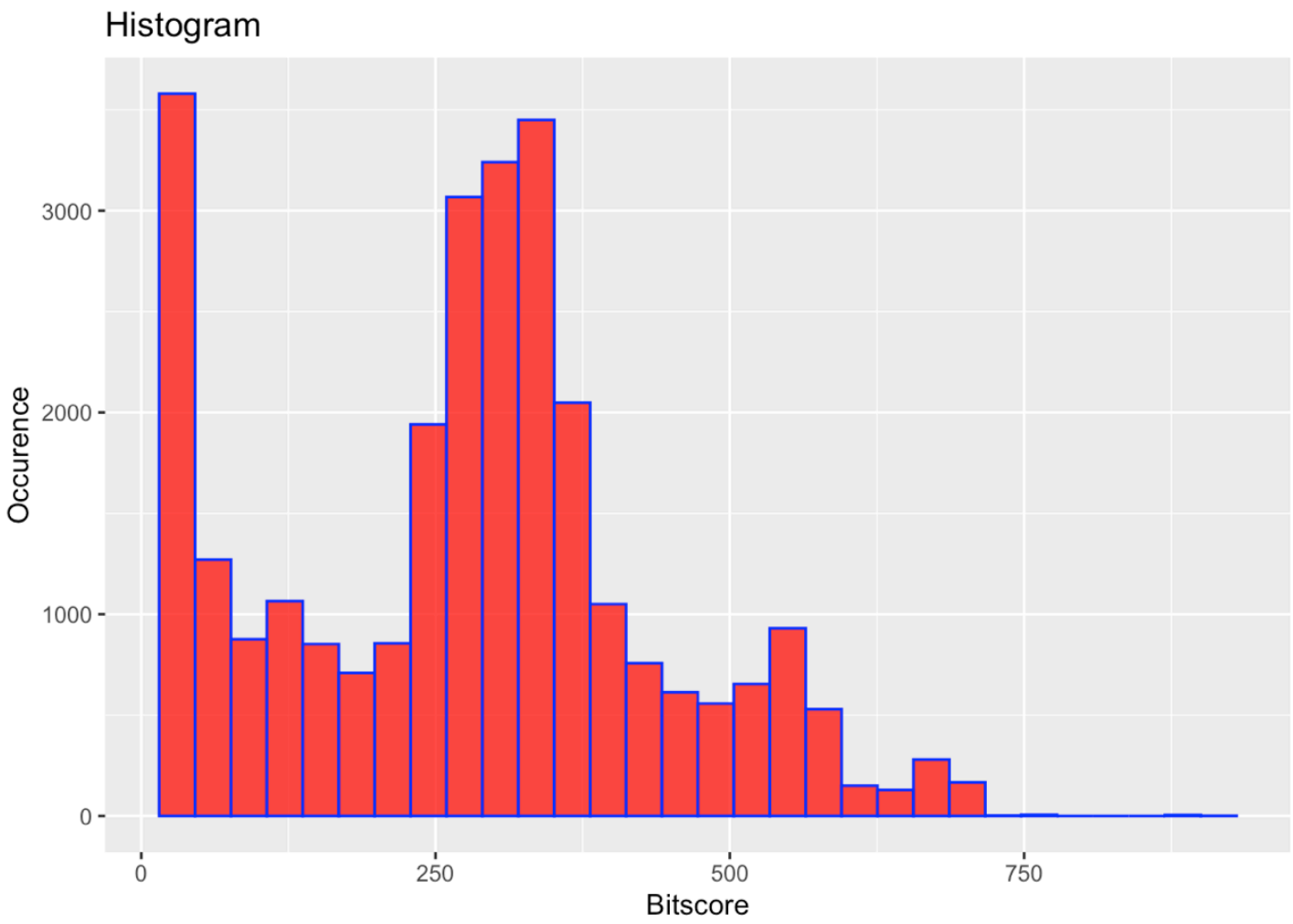
plot

```
library(ggplot2)
## Asuming your blast results are stored in an object called 'b'
plot(b$pident  * (b$qend - b$qstart), b$bitscore)
```

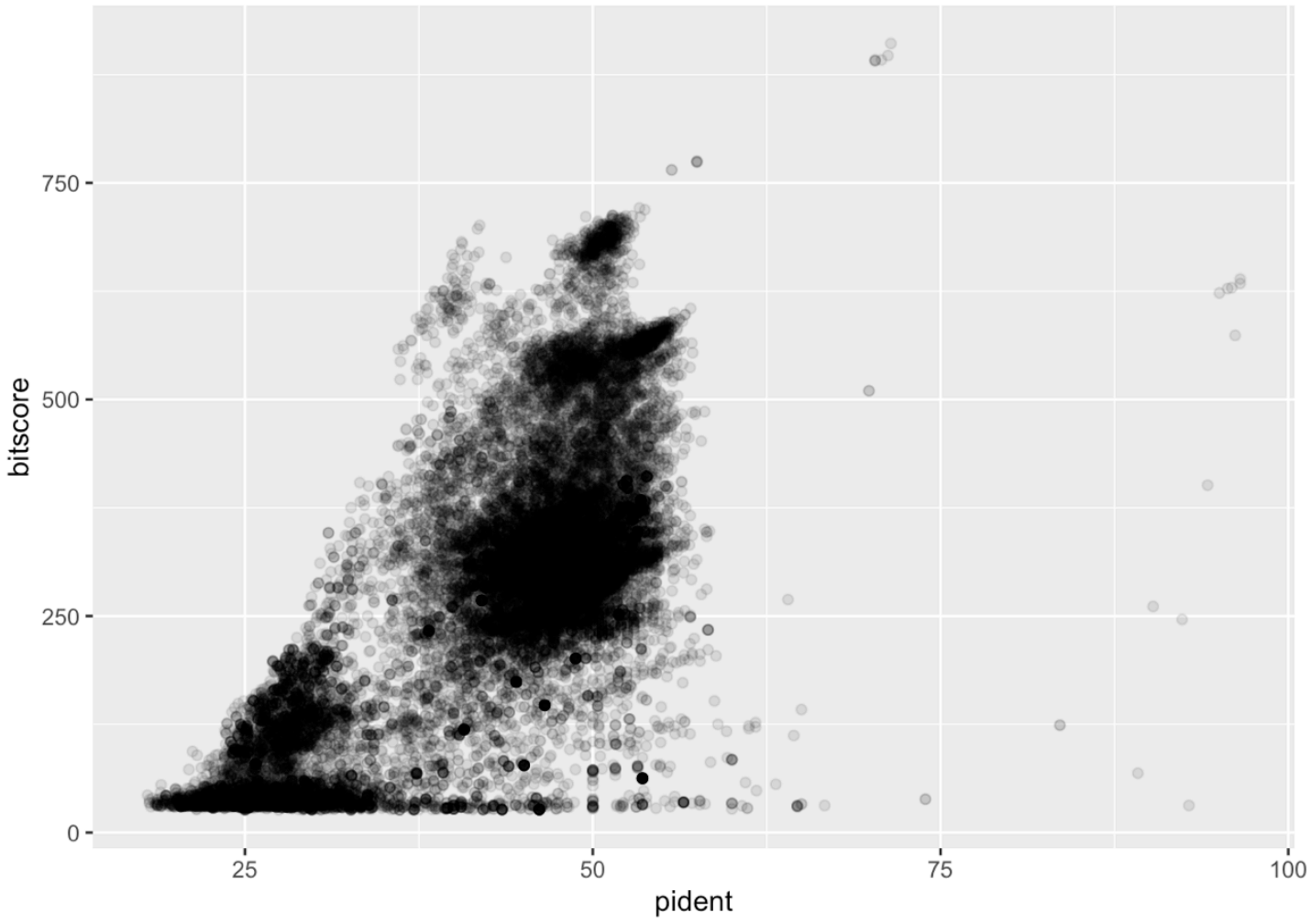



```
ggplot(b, aes(x = bitscore)) +
  geom_histogram(bins = 30, fill = "red", color = "blue", alpha = 0.8) +
  labs(title = "Histogram ",
       x = "Bitscore",
```

```
      y = "Occurence")
```



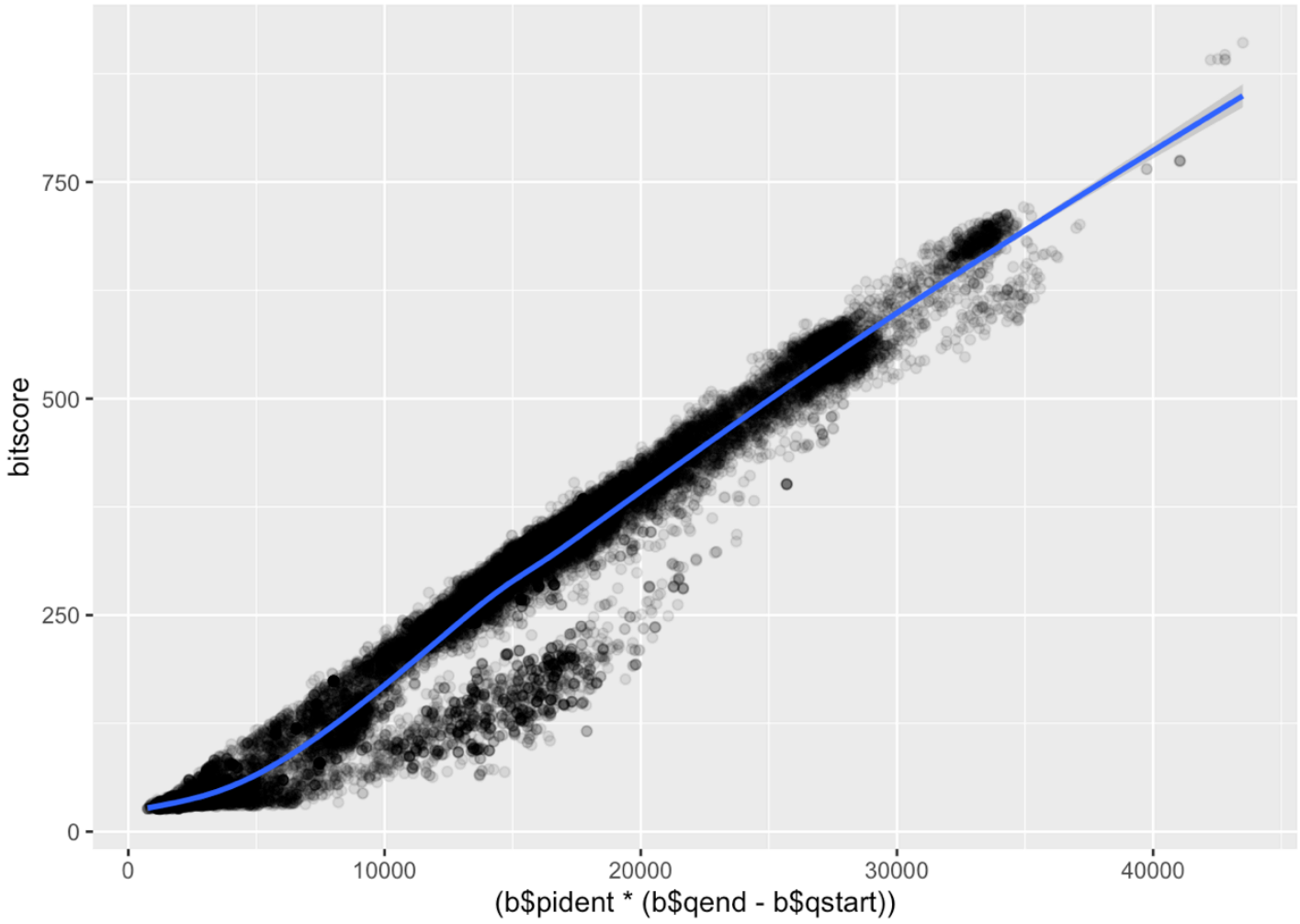

```
ggplot(b, aes(pident, bitscore)) + geom_point(alpha=0.1)
```




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

```
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")'
```




```
```