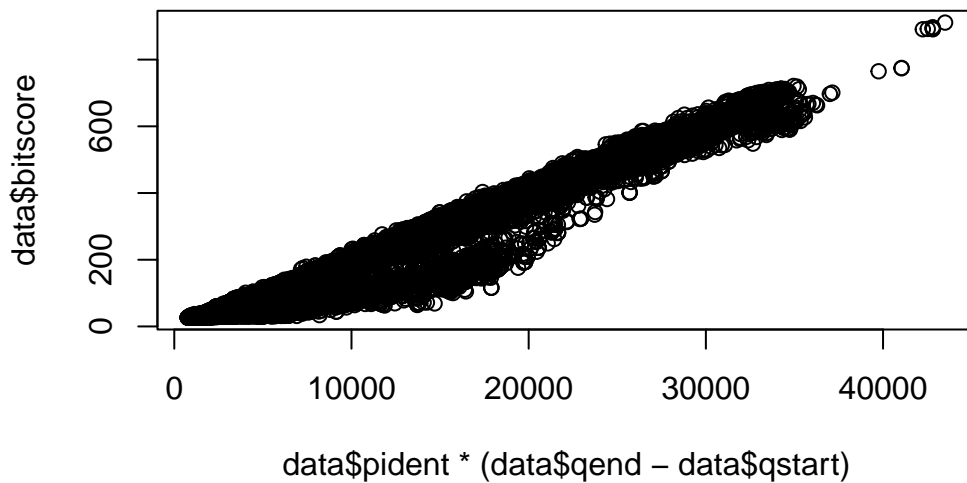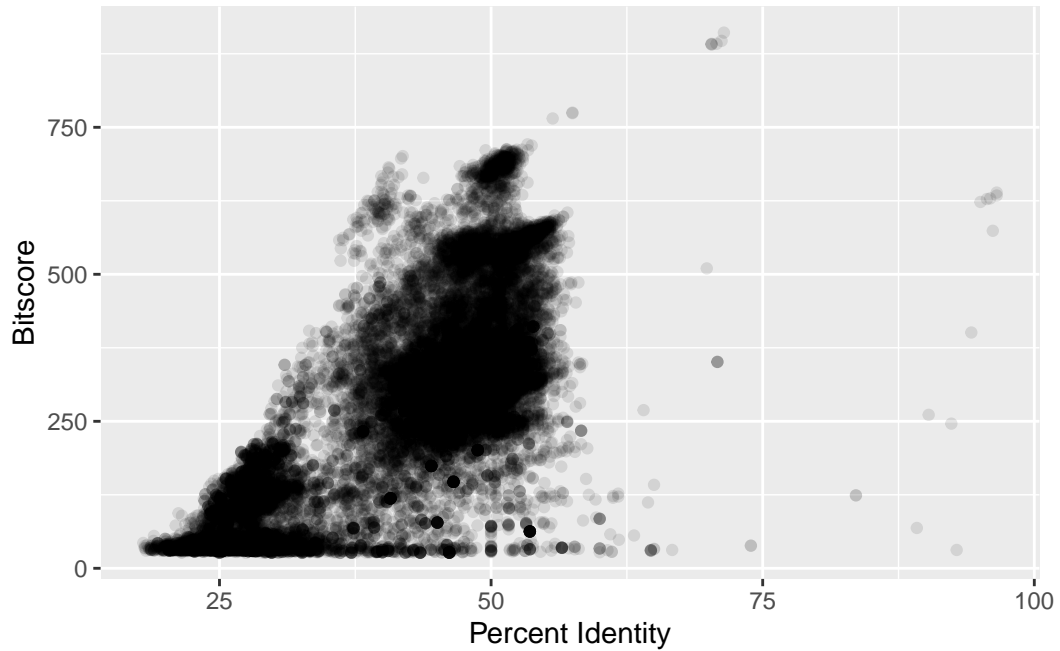# Class17

Eli Haddad (A16308227)

Data import

```
data <- read.csv("mm-second.x.zebrafish.tsv", sep= "\t", col.names= c("qseqid", "sseqid",
```

```
plot(data$pident  * (data$qend - data$qstart), data$bitscore)
```



```
library(ggplot2)
ggplot(data, aes(pident, bitscore), breaks=30) + geom_point(alpha=0.1) + xlab("Percent Ide
```

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

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

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

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

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

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

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

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