

Class 16 homework plots

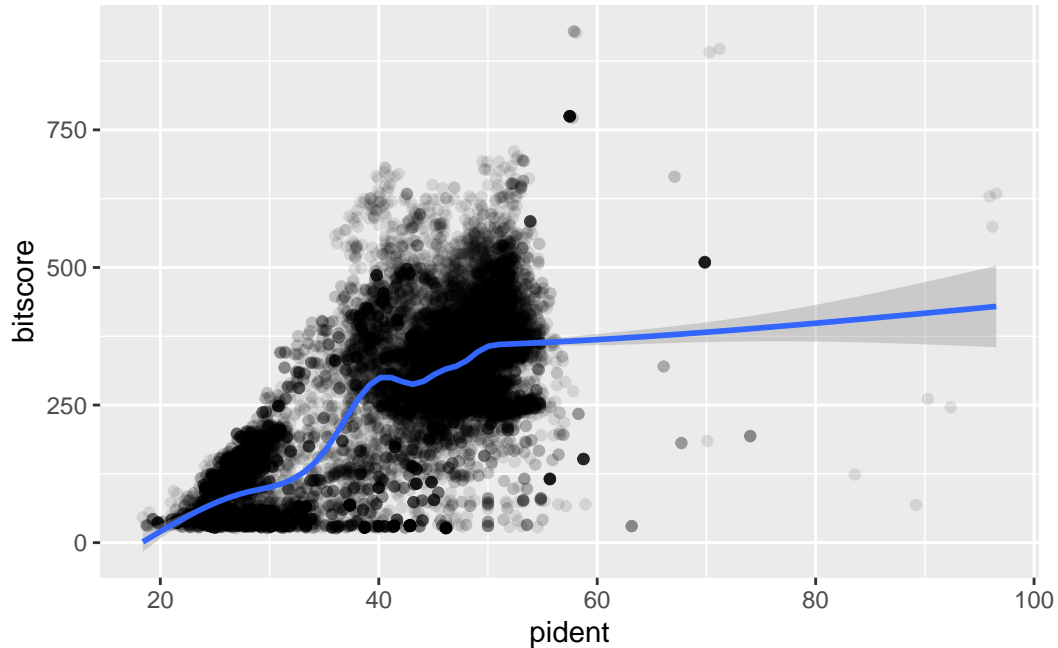
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```
library(ggplot2)
```

```
results <- read.delim("result copy.tsv")  
colnames(results) <- c("qseqid", "sseqid", "pident", "length", "mismatch", "gapopen",  
                      "qstart", "qend", "sstart", "send", "evaluate", "bitscore")
```

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

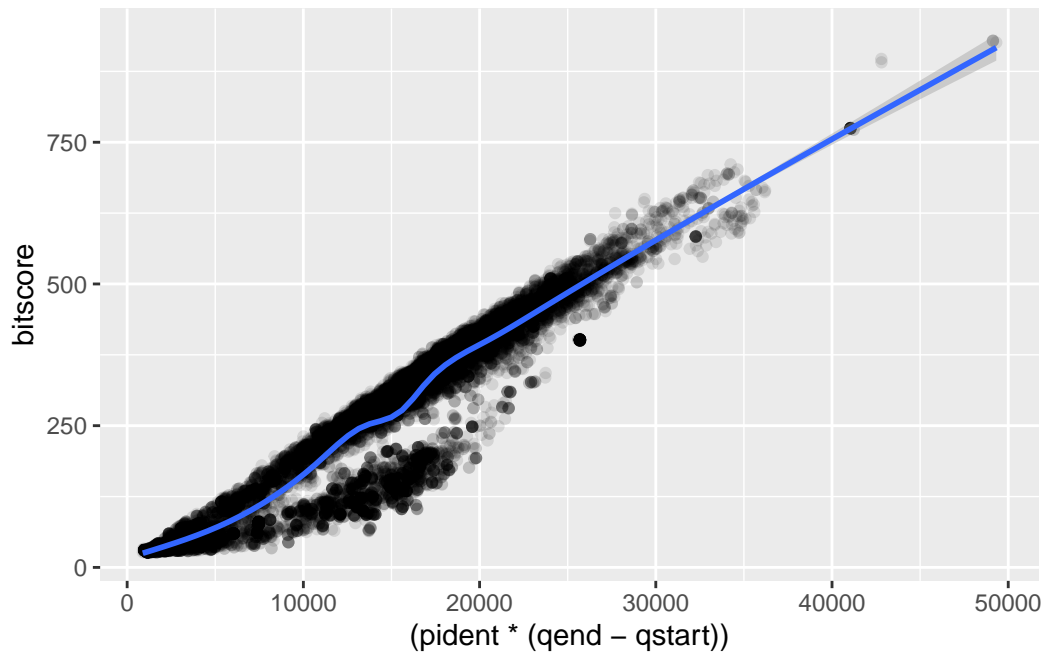
`geom_smooth()` using method = 'gam' and formula = 'y ~ s(x, bs = "cs")'



```
library(ggplot2)

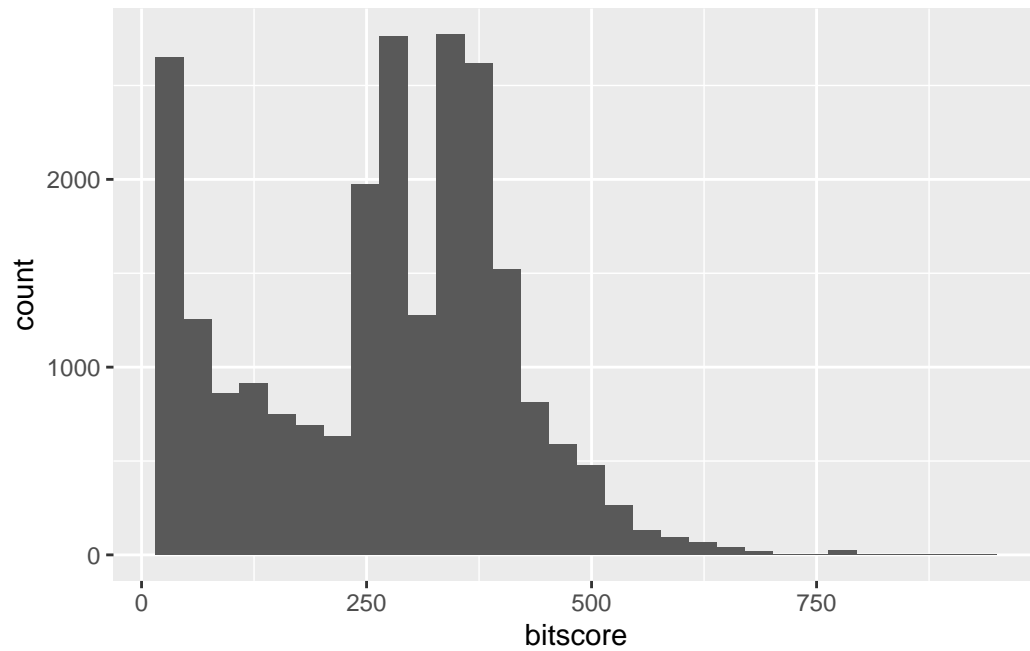
ggplot(results, aes((pident * (qend - qstart)), bitscore))+
  geom_point(alpha=0.1) +
  geom_smooth()
```

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



```
library(ggplot2)

ggplot(results, aes(bitscore) )+
  geom_histogram(bins=30)
```



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

