

Genome 540 Discussion

Jan. 22nd 2026



Histograms!



A terminal window with a title bar showing three colored circles (red, yellow, green) and a folder icon followed by the path `~/G/0/genome 540`. The terminal content shows a command being executed and its output.

```
hex ~/G/0/genome 540/  cargo run --bin hw1 --release
  Compiling hw1 v0.1.0 (/Users/youngk/GradVault/04-Classes/genome 540/hw1)
    Finished `release` profile [optimized] target(s) in 0.61s
    Running `target/release/hw1`
AACACGCG
AACCGACG
AACCGCGT
AACCGCGT
AACCGCGT
AACGACGT
AACGACGT
AACGCACG
AACGCGAG
AACGCGAG
AACGCGAT
AACGCGAT
AACGCGAT
AACGCGAT
AACGCGCT
AACGCGTA
AACGGACG
```

HW2 Questions?

How is question 4 different from HW1?

You found the gene where the sequence is found, but what biological feature might it correspond to? Where in the gene is it located? Is it coding sequence? Is it not? Same in mouse and humans?

Why *this particular* 217 base pairs?

Demo!

Use UCSC genome browser and/or BLAST

to add custom tracks:

chr12 120495938 120496409

Demo!

