

UCSC genome browser

https://www.melbournebioinformatics.org.au/tutorials/tutorials/Genome_browsers/GenomeBrowsers_Intro/#overview

Short read sequencing (Illumina) chemistry

Need to understand PCR: Good animation

<https://youtu.be/2KoLnIwoZKU>

(The animation mentions Taq polymerase, but other polymerases are used as well. Taq polymerase originally came from the microbe *Thermus aquaticus*. Pfu polymerase originally came from the microbe *Pyrococcus furiosus*, and is much less likely than Taq polymerase to incorporate occasional incorrect bases in the new strand.)

Note that polymerases start synthesizing new DNA at the 3' end of primer.

<https://www.youtube.com/watch?v=fCd6B5HRaZ8&t=179s>

More academic, also covers 2 color (~18 minutes) nanopore and PacBio

<https://www.youtube.com/watch?v=ml0Fo9kaWqo>