Alternatives to FPKM

- Raw read counts for differential expression analysis
  - Assign reads/fragments to defined genes/transcripts, get "raw counts"
    - Transcript structures could still be defined by something like Stringtie
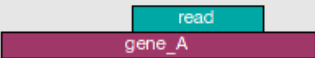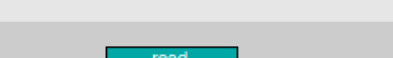
- HTSeq (htseq-count)
  - https://htseq.readthedocs.io/

> htseq-count --mode intersection-strict --stranded no --minaqual 1 --type exon --idattr transcript_id accepted_hits.sam chr22.gff > transcript_read_counts_table.tsv

- Caveats of 'transcript' analysis by htseq-count:
    - Designed for genes - ambiguous reads from overlapping transcripts may not be handled!
    - http://seqanswers.com/forums/showthread.php?t=18068

HTSeq-count basically counts reads supporting a feature (exon, gene) by assessing overlapping coordinates

Note, if gene_A and gene_B on opposite strands, sequence data is stranded, and correct HTSeq parameter set then this read may not be ambiguous

Whether a read is counted depends on the nature of overlap and "mode" selected

We are on a Coffee Break & Networking Session