Three example datasets

West Nile Virus NS3 protein

- An interesting case study of how positive selection detection methods lead to testable hypotheses for function discovery
- Brault et al 2007, A single positively selected West Nile viral mutation confers increased virogenesis in American crows

HIV-1 transmission pair

- Partial *env* sequences from two epidemiologically linked individuals
- An example of multiple selective environments (source, recipient, transmission)

SARS-CoV-2 Spike

- Full length spike sequences chosen to represent viral diversity (circa mid 2021)
- Good example for analyzing selection in population samples with many "deadend" intra-host variants

