

4/29/96

# Rudy Raff - Evolution

diff. disciplines see things differently

## Model systems

- many OB's imply a hierarchy

SEA URCHIN → FISH → AMPHIB → REPT → MAMMAL

\* - BUT some of these are NOT primitives but are derived

- How choose a model system?

- currently people choose things very specifically

- small

- monomorphic

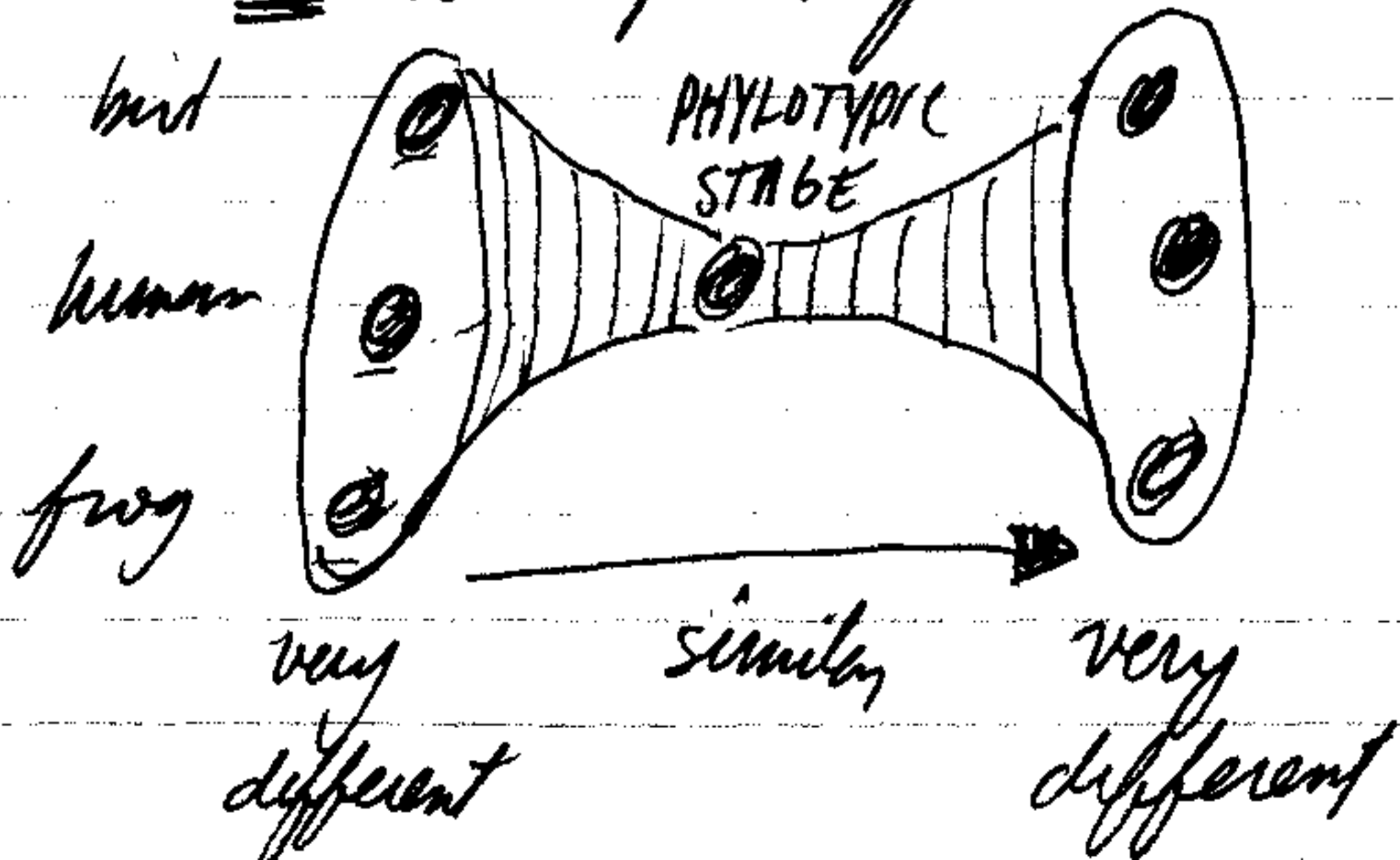
- canalized

- quick development

- these choices bias opinions of Evolution of Dev.

- e.g. - in *Drosophila* D's in early dev. have great effects in later development

but development goes more like





Why is there a phylotypic stage?

- there are certain features (such as modularity) that are sim. in many species
- it may be that at the phylotypic stage all modules talk to each other