

Jacob 1977

Dani Bartz 1.11.24

Explaining/Understanding
the unknown

natural phenomena

complicated visible

asking questions

explained by

simple invisible

complexity of
objects

general Q's

limited Q's

more
&
more

hierarchy

limited answers

general answers

diff. views can
represent new angles/
diff. facets of same
phenomenon

simpler

restrictions

limitations

moves to
more complex

produced by

evolutionary
processes

Consequences of
Tinkering (exs.)

Ex: complex bodily functions

blood, inflammation,
immune defenses

embryonic
development

human
brain

reproduction

sexual

asexual

signals

behaviors

reshuffling of
genetic material

went from
automatic

to

pleasure

vs. pain

center of
autostimulation

center of
aversion

natural selection
(is)
reproduction
(is)
interaction

tinkerer > engineer

same problem
result
different solutions

constraints @
every level

control

systems
involved

historical
circumstances

control

actual interactions
between systems

regulation

> structure

recombination

therefor

living organisms

= Creations of history!

evolution
(is)

Creation thru