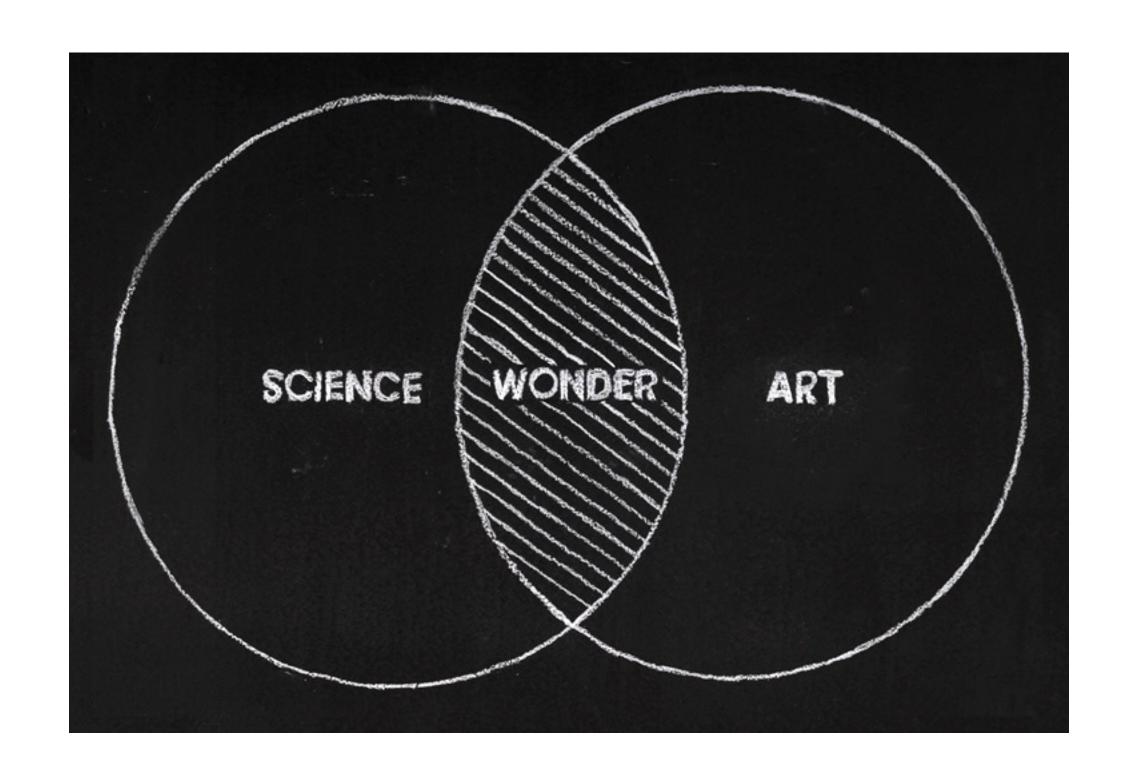


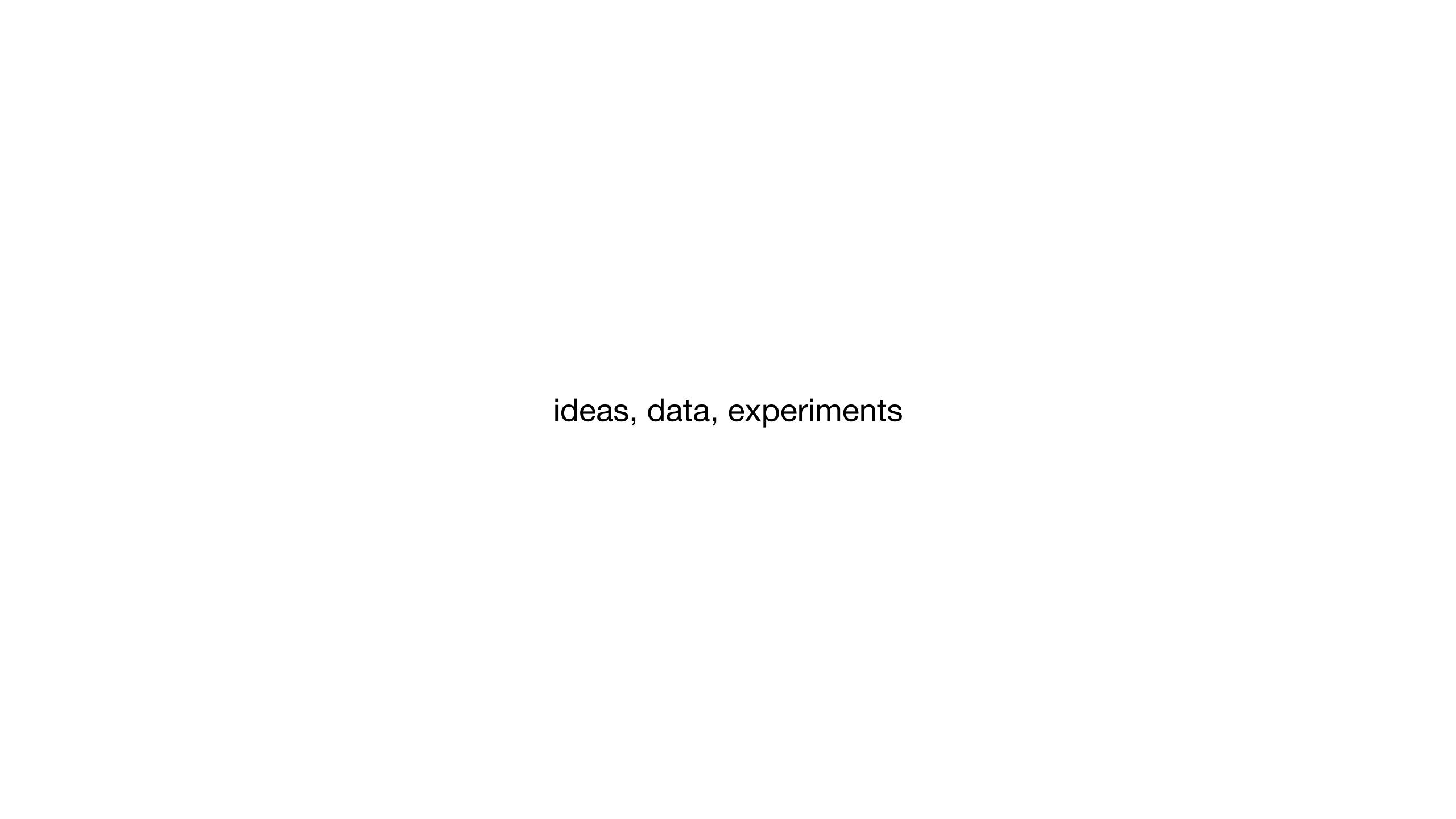
cjlortie



welcome

science is always creative





landscape includes theory <space> experimentation <space> big data <space> validate ideas





OCTOBER 19TH-25TH 2013

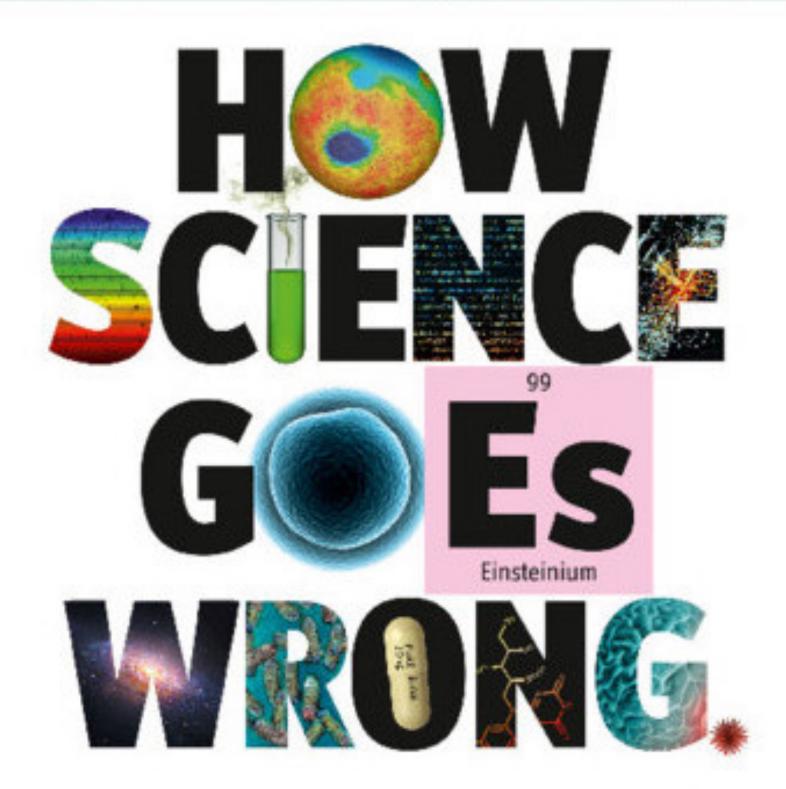
Economist.com

Washington's lawyer surplus

How to do a nuclear deal with Iran
Investment tips from Nobel economists

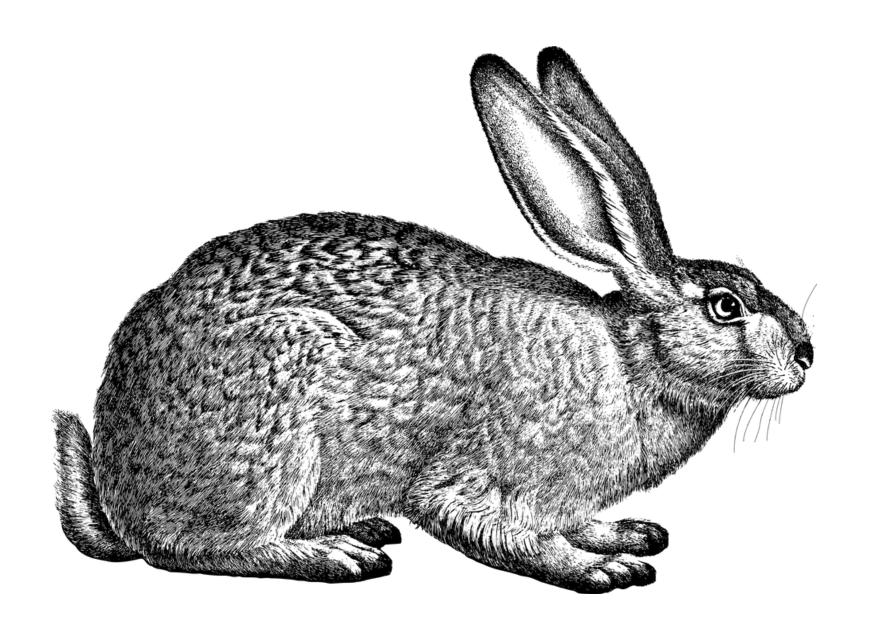
Junk bonds are back

The meaning of Sachin Tendulkar



landscape of research should be scalable and reproducible

need to expand use of and critical value of experimentation



designcraft4experiments

silos

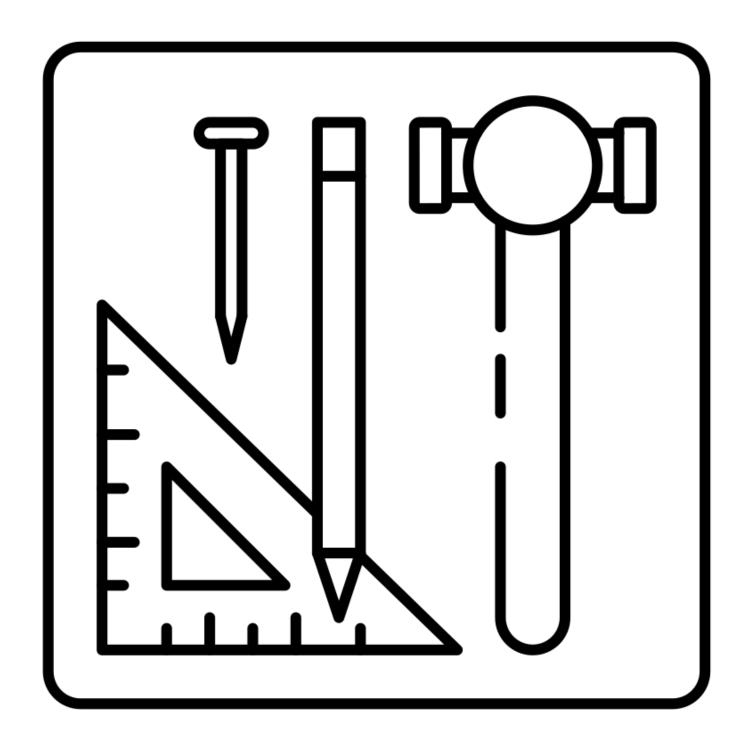


challenges

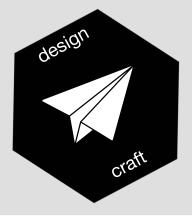
canalized phenotypes



opportunity



BIOL3250 Experimental Design Cheat Sheet





lectures

test 30%

grant proposal 20%

labs

data 5%

data 5%

field lab report 30%

data lab report 10%

key dates

sept 30 data

oct 21 data

oct 28 test

nov 11 lab

nov 25 grant

dec 2 lab

lectures



read ONE book, do a test, write a short grant proposal

labs



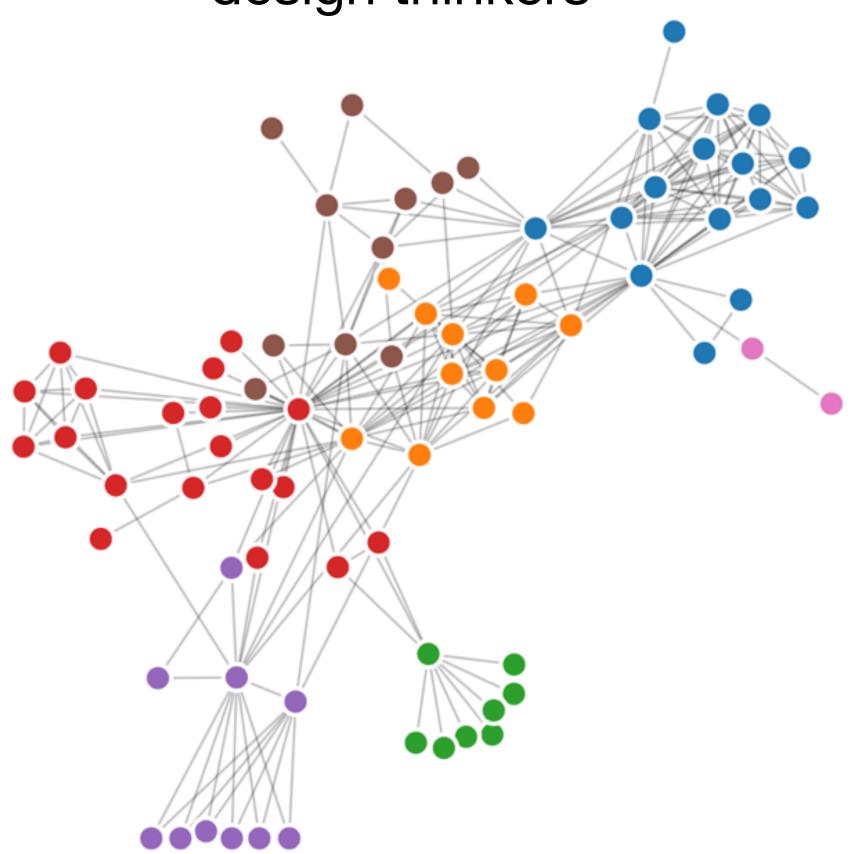
do one experiment from scratch (haha) and one from existing data



pilot experiments

low stress
no side-effects
creative thinking for science
synchronous help, but asynchronous work

goal
become creative scientific
design thinkers



outcome

connect the dots between observation (data) and process