

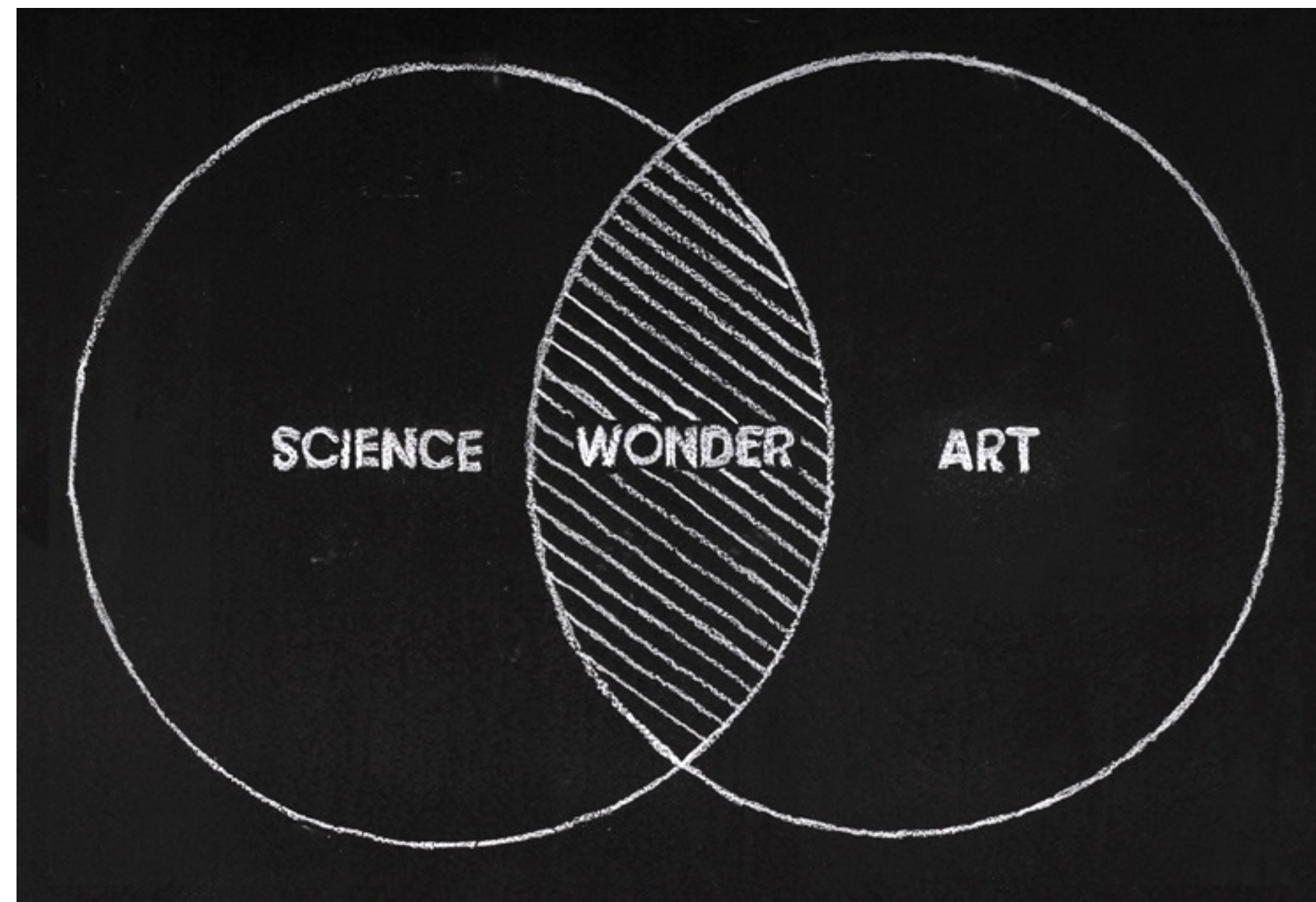
cjlortie

welcome



BIOL3250

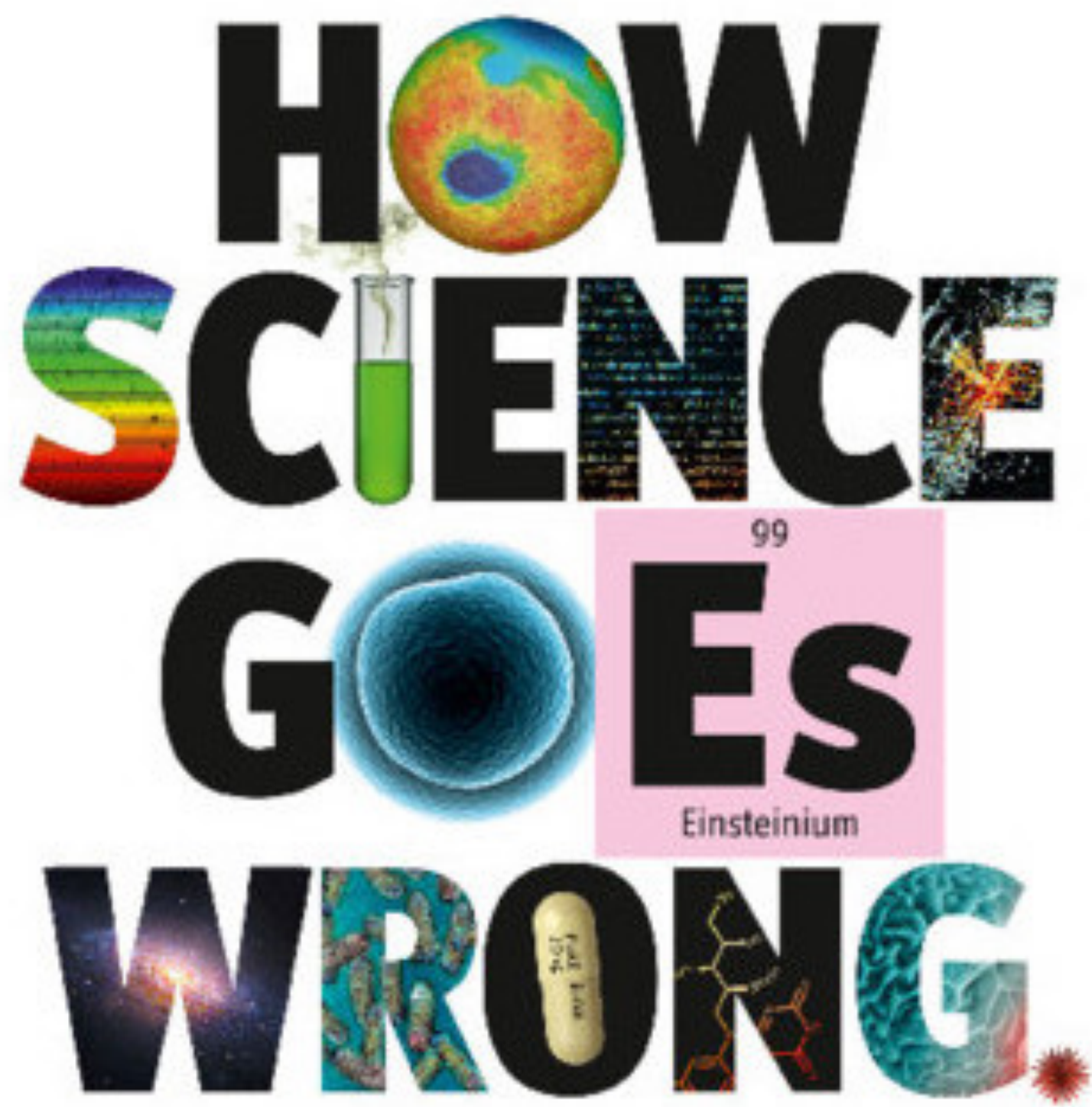
science is always creative



ideas, data, experiments

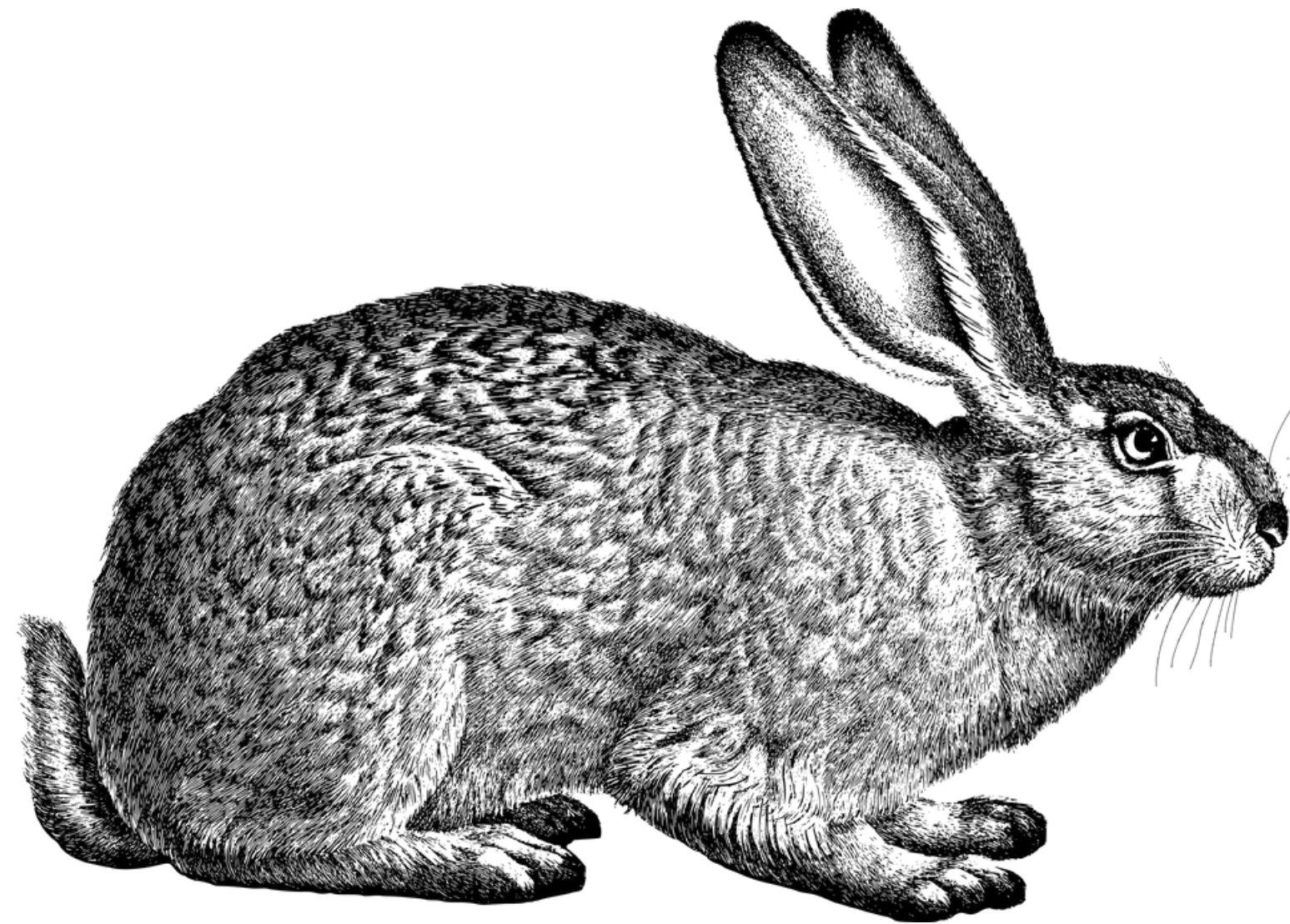
landscape includes
theory <space> experimentation <space> big data <space> validate ideas





landscape of research should be scalable and reproducible

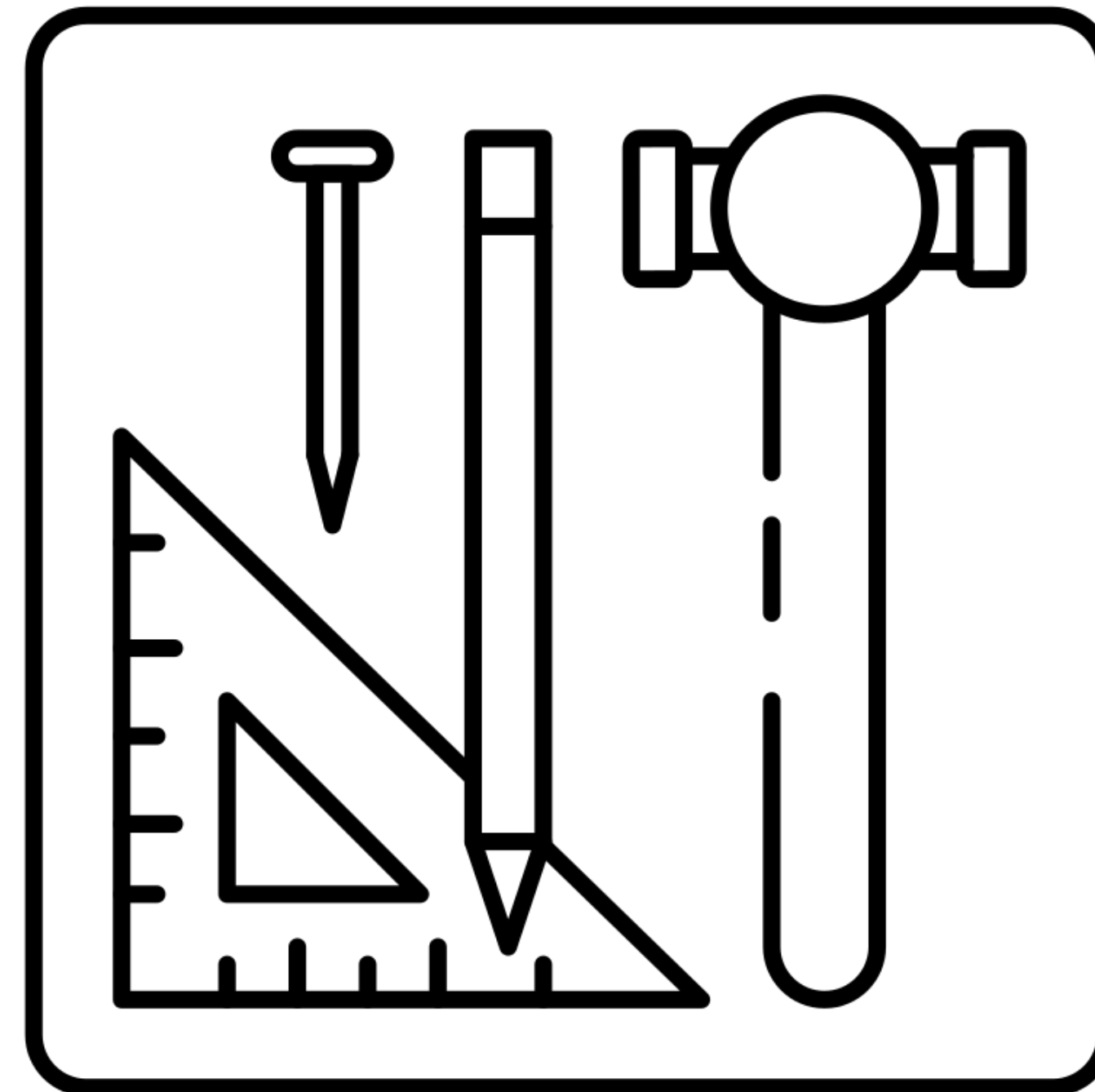
need to expand use of and critical value of experimentation



designcraft4experiments

A black and white icon depicting a barn and a silo. The barn on the left has a gabled roof, a small square window, and a large door with a white 'X' pattern. To its right is a tall, cylindrical silo with a domed top and a vertical ladder-like structure on its side.

opportunity



lectures



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

labs



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

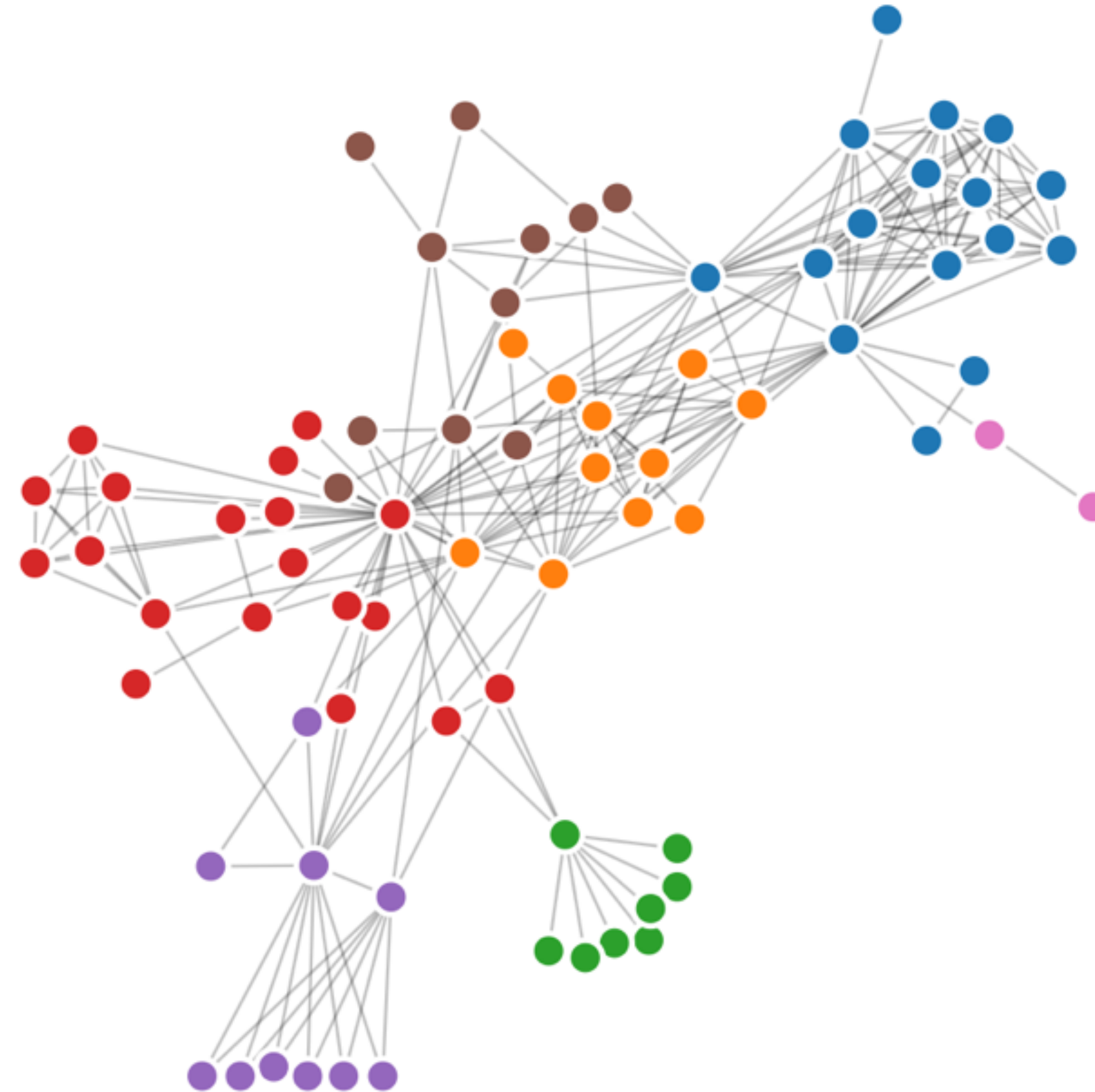


pilot experiments

useful
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