





## increasing power

standard approach ... add more participants

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but not the only way!

can get more power ... but often sacrifice a little generality need to understand and explain

with great power comes great responsibility ;-)





































# trouble with buttons (2)

#### novices:

work more slowly – less likely to make slip notice lack of semantic feedback – so they recover

#### experts:

act quickly – so make more slips focused on next action, so miss feedback

#### problem:

experts slips don't happen often ... never in experiments needed to craft task to engineer expert slips

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## reduced vs. wild



in the wild has lots of extraneous effects
 = noise!
control environment => lab or semi-wild

### reduced task

e.g. scripted use in wild environment

### reduced system

e.g. mobile tourist app with less options



