Variable Names
in R Script

- Keep them short, but aim for mnemonic value

NOT: ~~Var1~~ ~~var2~~

- length of 3 to 5 letters

- shorten the name by dropping vowels

complex → cmplx → cpx

parsimonious → . → prm

zero-correlation → → zcp
- parameter

- aiming for equal length to facilitate editing with multiple cursors

Factor | Covariates

[Independent variable]

[Dependent Variable(s)]

Factor: discrete set of levels

Covariate: numeric variable
(continuous)

① — between- or within-

[Subject] — Exp
         — Contro

Subject = longitudinal
        = aging
        10

[News] — Fake
       — True

[News] = some state
         change

[Words] — length
        — frequ

[Word] — contrast
       — duration

RELEVANCE OF DISTINCTION: Observations are

independent   dependent

② — ⟮fixed⟯ or ⟮random⟯ sample of

~exp v.Cntrl
small number
of levels

levels from population

RELEVANCE OF DISTINCTION: Result are valid only for levels of factor

Results generalize to other members of the population

③ ⟮experimental⟯ or ⟮quasi-experimental⟯

Experimenter assigns
subjects, items, etc.
to levels of factor
Group: Treatment → Control

Subject/ward "brings"
level to the experiment
↓ ↓ ↘
Gender: male fined divers

RELEVANCE
OF DISTINCTION:

Effects are
CAUSED
by experimental
manipulation

Effects are
CORRELATED
with quasi-exp.
manipulation