FEATURE CROSSES
A synthetic feature formed by multiplying (i.e. crossing) two or more features.
Example:
How to fit into
D Synthetic X3=X1 K2
Synthetic X3-X1 K2
D Housing: lat x rum-bedrooms  (3 & bedrooms in SF is diff.
from 3 bedrooms (nowhere)
3 Tictactoe: pos/xpos2xxpos9
Why?
Fincorporate nonlinear learning into linear harms
- Linear models scale very well!
- Linear models scale very well! - Also helpful in NWS
crossing one-hot vectors (for cat values)
- Lang x Country - Lat x Long (after binning)

etc.