a
rep#1
rep#2
rep#n
Noise (N)
Signal (S)
b
Model predictions
g N
g S
S
N
Represent. sim.
Relative gain
c
Neuropixels dataset1
Neuropixels dataset2
All units
Represent. similarity
Pupil relative size
d
Experimental data
All units
dataset1
dataset2
Avg. represent. similarity
Pupil relative size
e
Neuropixels dataset1
Neuropixels dataset2
V1 units
Represent. similarity
Pupil relative size
f
V1 units
Avg. represent. similarity
Pupil relative size
g
Indep.-mixing model
Stronger N (x2)
Weaker B (x0.5)
R^2: 0
|Behav. modulation|
Stim. reliability