

CogSci A3 Report
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Model used -

Ridge regression

Alpha values tested: [0.1, 1.0, 10.0]

(MSE): 2.233620580234162

R squared : 99.4567

We find that the model can fetch the similar images quite well even with a simple ML model.

Test Image train-0001_nsd-00005.png



No caption available

Test Image train-0002_nsd-00036.png



No caption available

Test Image train-0003_nsd-00044.png



No caption available

Test Image train-0004_nsd-00054.png



No caption available

Test Image train-0005_nsd-00057.png



No caption available

Most Similar Train Image train-1626_nsd-11669.png



two giraffes locked inside of a closed gate

Most Similar Train Image train-0689_nsd-04783.png



A person is eating a seafood pizza with a knife and fork

Most Similar Train Image train-0941_nsd-06564.png



A male skateboarder skating on a concrete ramp.

Most Similar Train Image train-0733_nsd-05050.png



A man is playing a game of professional baseball.

Most Similar Train Image train-0471_nsd-03363.png



A table topped with plates and bowls of food.

We further check how our Ridge regression assigns different parameters to different ROIs responsible for faces, places, bodies and words. We find that FFA-2 and VWFA-1 are assigned bigger weights suggesting their importance in images and feature extraction.



