Evaluating multi-modal deep neural networks

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Object recognition

Bus
Penguin

Ostrich
Penguin

Image captioning

“There is a herd of horses running and there is two people in the center of the herd on horses directing them.”

Evaluate deep networks with micro-worlds

(Images in upper half from Nguyen et al. (2015), Szegedy et al. (2013), and the Microsoft COCO dataset.)