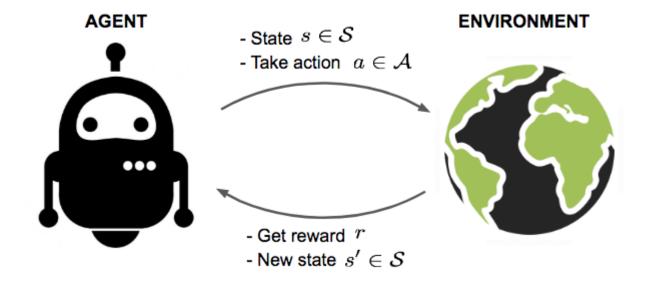


Владислав Куренков, Университет Иннополис Language Grounding: Recent Advances



Gated-Attention Architectures for Task-Oriented Language Grounding

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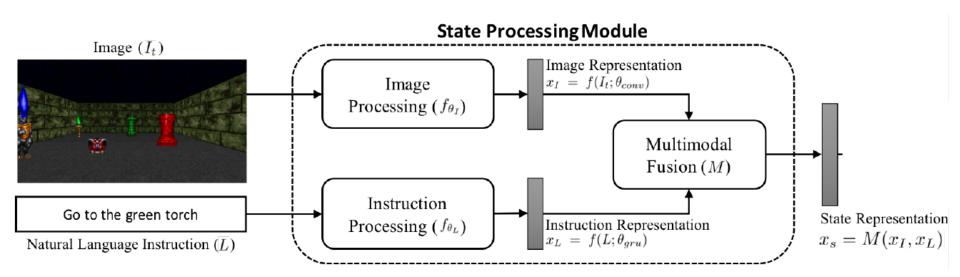
dheeraj@cs.cmu.edu School of Computer Science Carnegie Mellon University

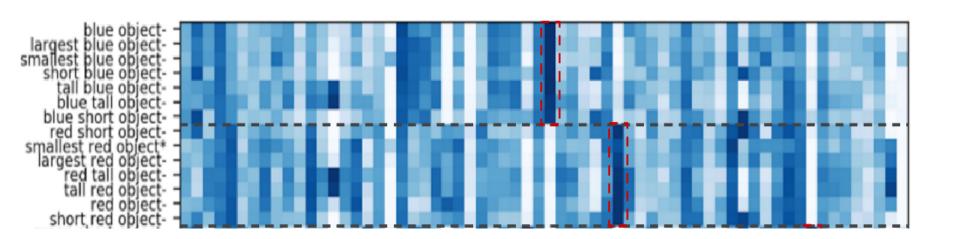
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Go to the green torch



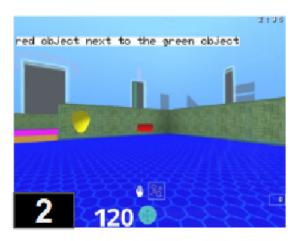


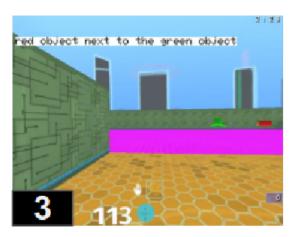
Grounded Language Learning in a Simulated 3D World

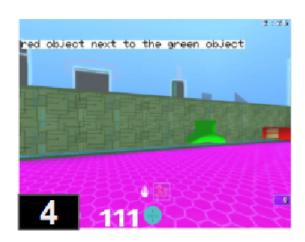
Karl Moritz Hermann^{*†}, Felix Hill^{*}, Simon Green, Fumin Wang, Ryan Faulkner, Hubert Soyer, David Szepesvari, Wojciech Marian Czarnecki, Max Jaderberg, Denis Teplyashin, Marcus Wainwright, Chris Apps, Demis Hassabis and Phil Blunsom[†]

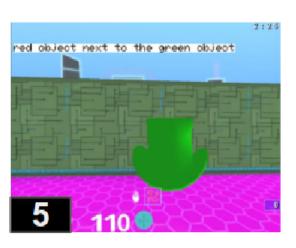
DeepmindLondon, UK

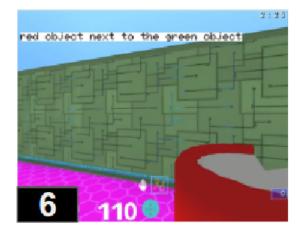


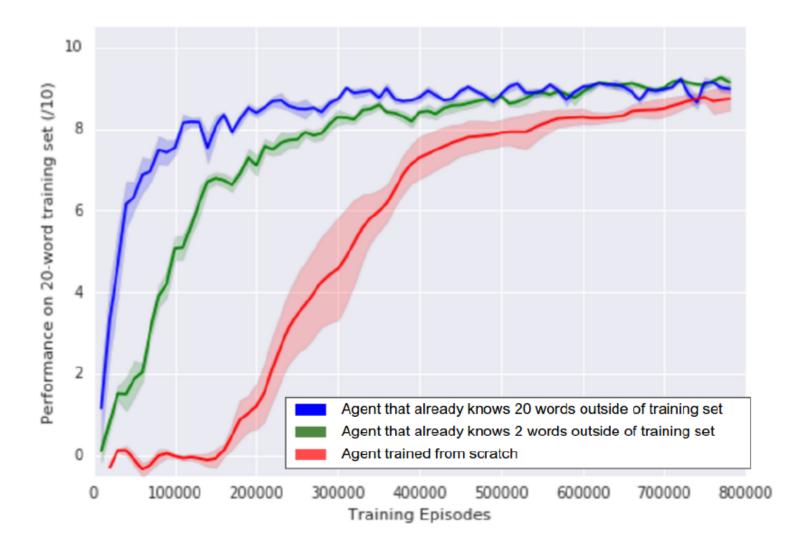






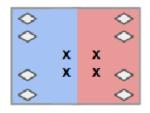






single-room layout

1

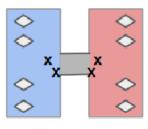


two object words and room descriptors



two room layout

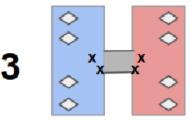
2



two object words and room descriptors



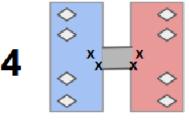
two room layout



medium object word / room descriptor vocabulary



two room layout

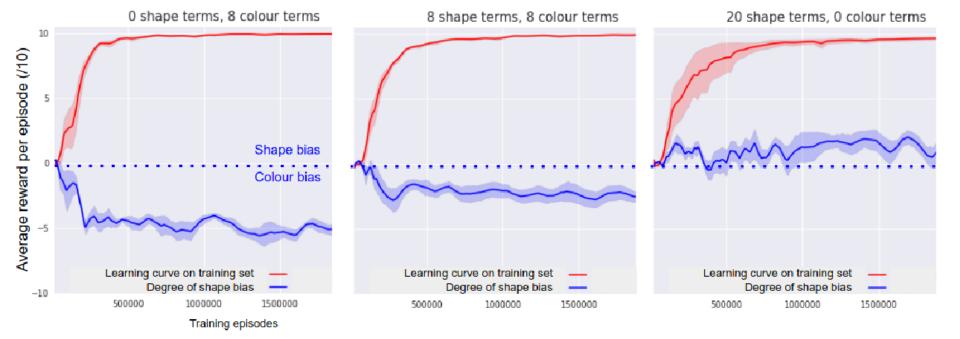


full object word / room descriptor vocabulary

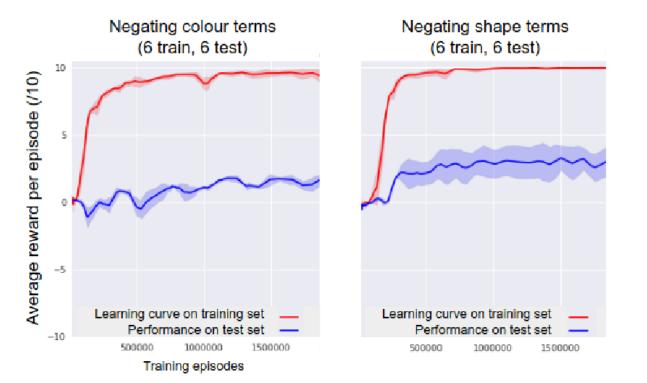


Understanding Grounded Language Learning Agents

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Felix Hill, Karl Moritz Hermann, Phil Blunsom & Stephen Clark
Deepmind
London
{felixhill, kmh, pblunsom, clarkstephen}@google.com
```

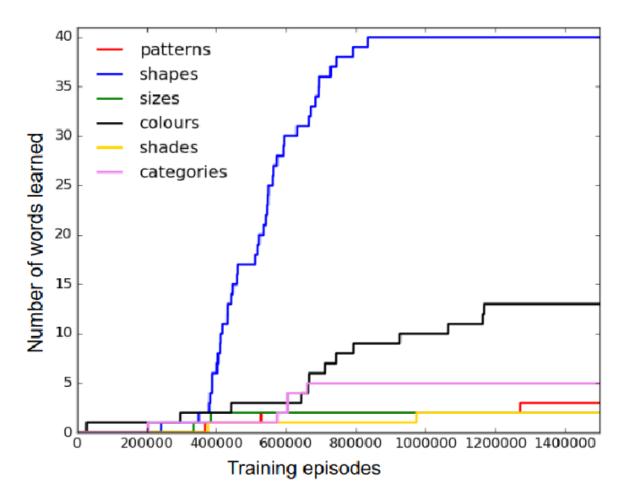


Tell me a joke that is not offensive





Negating shape terms



QA



Владислав Куренков telegram, linkedin: vvkurenkov

Appendi

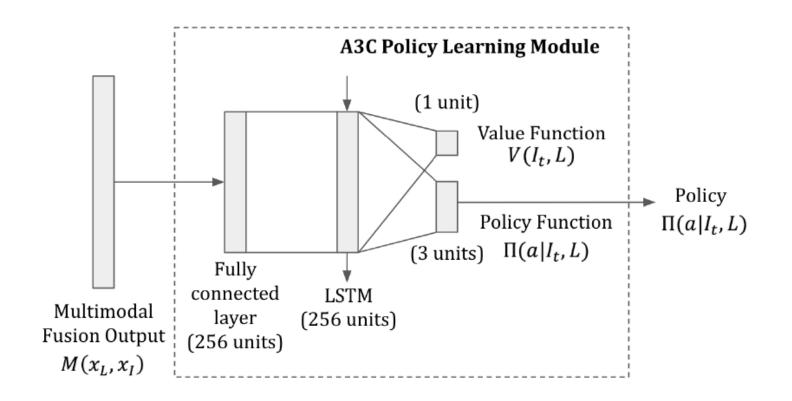


Figure 4: A3C policy model architecture.

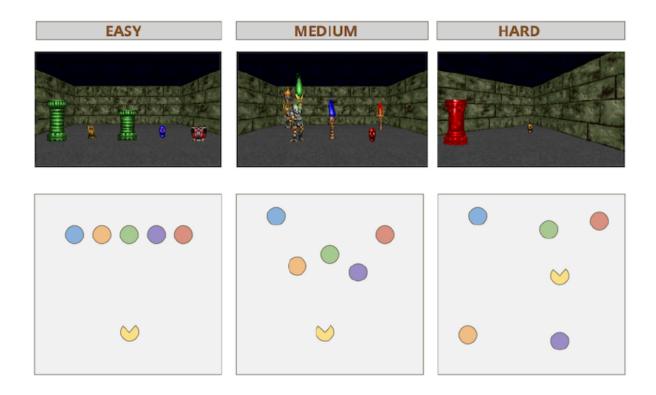
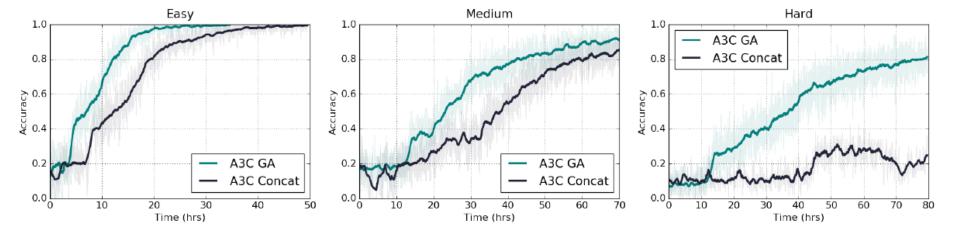
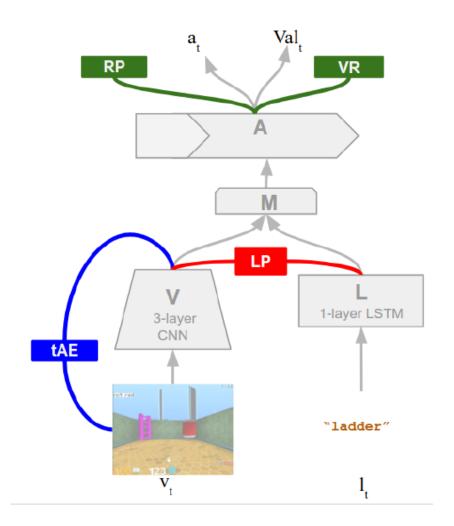
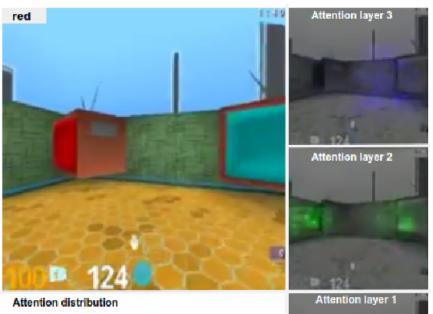


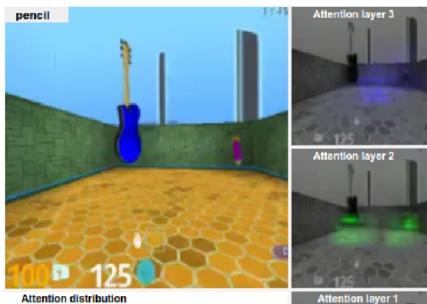
Figure 5: Sample starting states and bird's eye view of the map (not visible to the agent) showing agent and object locations in Easy, Medium and Hard modes.



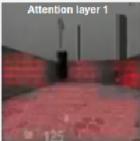


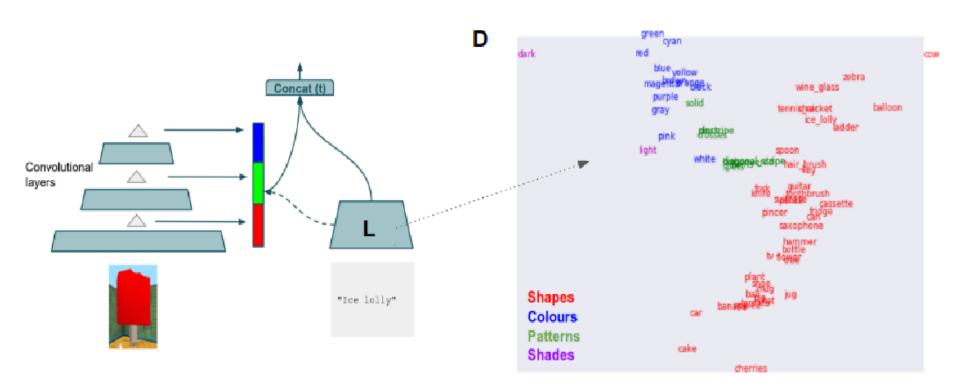












Emergence of Grounded Compositional Language in Multi-Agent Populations

Igor Mordatch ¹ Pieter Abbeel ¹²

Interactive Grounded Language Acquisition and Generalization in a 2D World

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