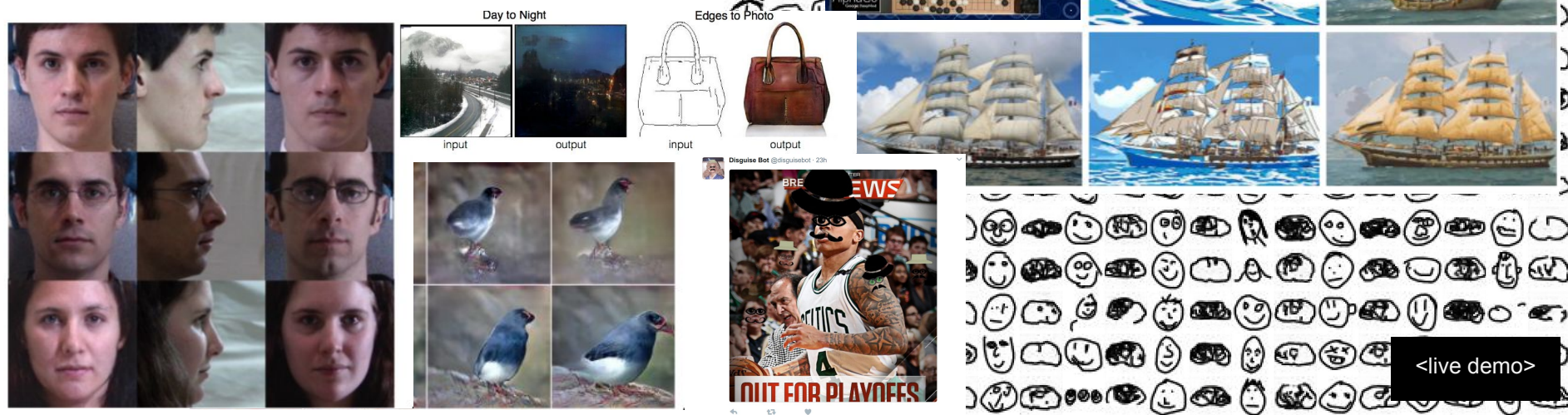


Figure 6: Comparison with [19] using the same pairs.

Creative AI Meetup

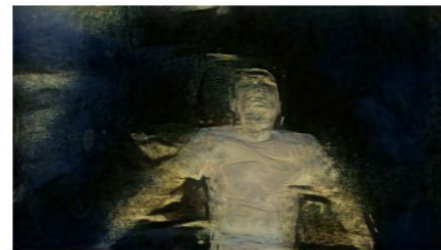
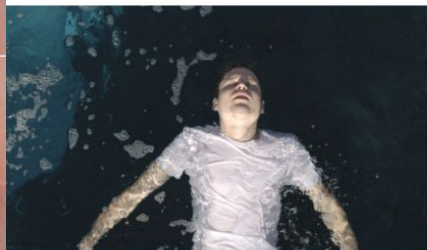
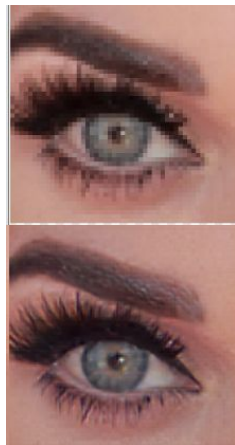


Bringing Impressionism to Life with Neural Style Transfer in *Come Swim*

Bhautik J Joshi*
Research Engineer, Adobe

Kristen Stewart
Director, *Come Swim*

David Shapiro
Producer, Starlight Studios



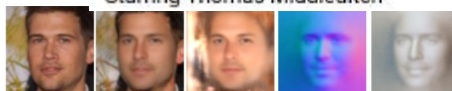
a: when are you going to
let the police know
b: you don't know what
you're talking about

a: shall i leave
b: of course

a: is something wrong
b: no no no



Sunspring | A Sci-Fi Short Film
Starring Thomas Middleditch



(a) input (b) recon (c) albedo (d) normal (e) shading



(f) relit (g) smile (h) beard (i) eyewear (j) older

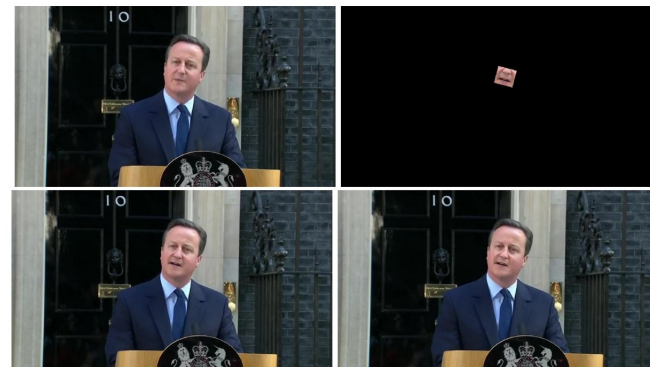
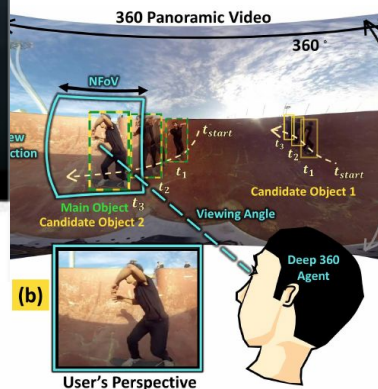
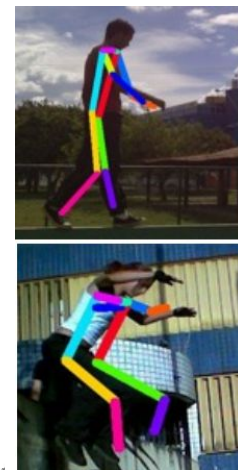


Fig. 12. **Top left:** Original still image; **Top right:** Generated mouth region, aligned with the original (target) face; **Bottom right:** Generated mouth region, superimposed on the original face. **Bottom left:** Generated mouth region, blended with the original face.



Types of AI/ML

- Generative (GANs)
- Recurrent Neural Networks (RNNs)
- Manifold-esque (word2vec, poli2vec, ...2vec)



a: when are you going to
let the police know
b: you don't know what
you're talking about

a: shall i leave
b: of course

a: is something wrong
b: no no no



- Classification
- Labelling
- Reinforcement Learning (RL)
- **Q:** Others? What have you heard about?

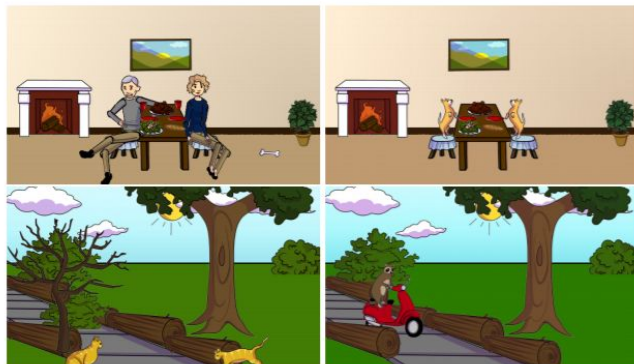


Figure 6: Fully automatic result of altering an input unfunny scene (left) into a funny scene (right).

Deep Learning

input system output

$$x \rightarrow f(x) = y$$

classical programming



Compilers
Websites
Norvig's Sudoku Solver
DeepBlue

classical machine learning



Friend Suggestions
Face Detection

deep learning



AlphaGo
Person Identification

Community

Q: What are you interested in in the Creative AI world?

Q: Creative activities computers could take over?

Q: Things you wish computers could do but can't?

Meetup Plans

- Talks?
- Panels?
- Hack Nights?
- Mentoring Sessions?
- Meetup Times?
- ... ?
- Google Form With Questions

Resources

- <https://tensorflow.org> - ML/AI Library
- <http://www.creativeai.net/> - News
- <http://ml4a.github.io/> - Machine Learning For Artists Lecture Notes
- <http://distill.pub> - Technical Articles
- <https://scirate.com> - Front for the arXiv; technical articles
- <https://github.com/tensorflow/magenta> - Google's Creative AI Project
- **Slack**
 - Invite: <http://ml-ai-invite.herokuapp.com>
 - Channel: <https://ml-ai.slack.com/>
- Running Models:
 - <https://cloud.google.com/ml-engine/>
 - <https://www.floydhub.com/>

Sponsors

- <http://silverpond.com.au>



- <http://move37.ai>



Links

- <https://arxiv.org/pdf/1704.06729.pdf>
- <https://github.com/erikbern/deep-fonts>
- <https://github.com/Evolving-AI-Lab/ppgn>
- <https://arxiv.org/pdf/1704.04086.pdf>
- <https://lyrebird.ai/team>
- <https://arxiv.org/pdf/1705.01088.pdf>
- <https://arxiv.org/pdf/1705.01908.pdf>
- <https://magenta.tensorflow.org/nsynth-instrument>
- <http://ml4a.github.io/>
- <https://scirate.com/arxiv/1701.04928>
- <https://arxiv.org/pdf/1704.04131.pdf>
- <https://github.com/junyanz/CycleGAN>
- <https://github.com/affinelayer/pix2pix-tensorflow>
- <https://arxiv.org/pdf/1704.08224.pdf>
- <https://arxiv.org/pdf/1512.04407.pdf>