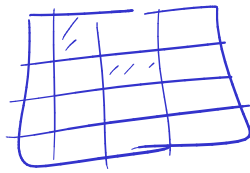
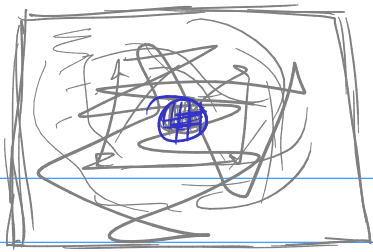


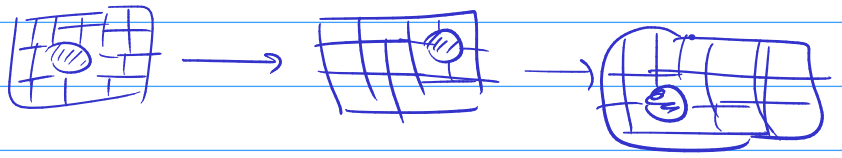
Saccades



SVHN

321

glimpses



BLEU  
ROUGE  
METEOR



Open Subtitles

Ubuntu

BLEU vs Human 0.05  
- 0.05

Human vs Human - 0.95



$$r(a, [p_i, q_i]) = \lambda_1 r_1 + \lambda_2 r_2 + \lambda_3 r_3$$

ease of answering:

$$r_1 = - \frac{1}{|\text{Responses}|} \cdot \sum_{q \in \text{Responses}} \frac{1}{|q|} \cdot \log p_{\theta}(q|a)$$

"I don't know"

information flow:

$$p_i \neq a$$

$$r_2 = - \log \cos(h_{\theta}(a), h_{\theta}(p_i))$$

semantic coherence:

$$r_3 = \frac{1}{|a|} \log p_{\theta}(a|q_i, p_i) + \frac{1}{|q_i|} \log p_{\theta}(q_i|a)$$

backwards

NAS

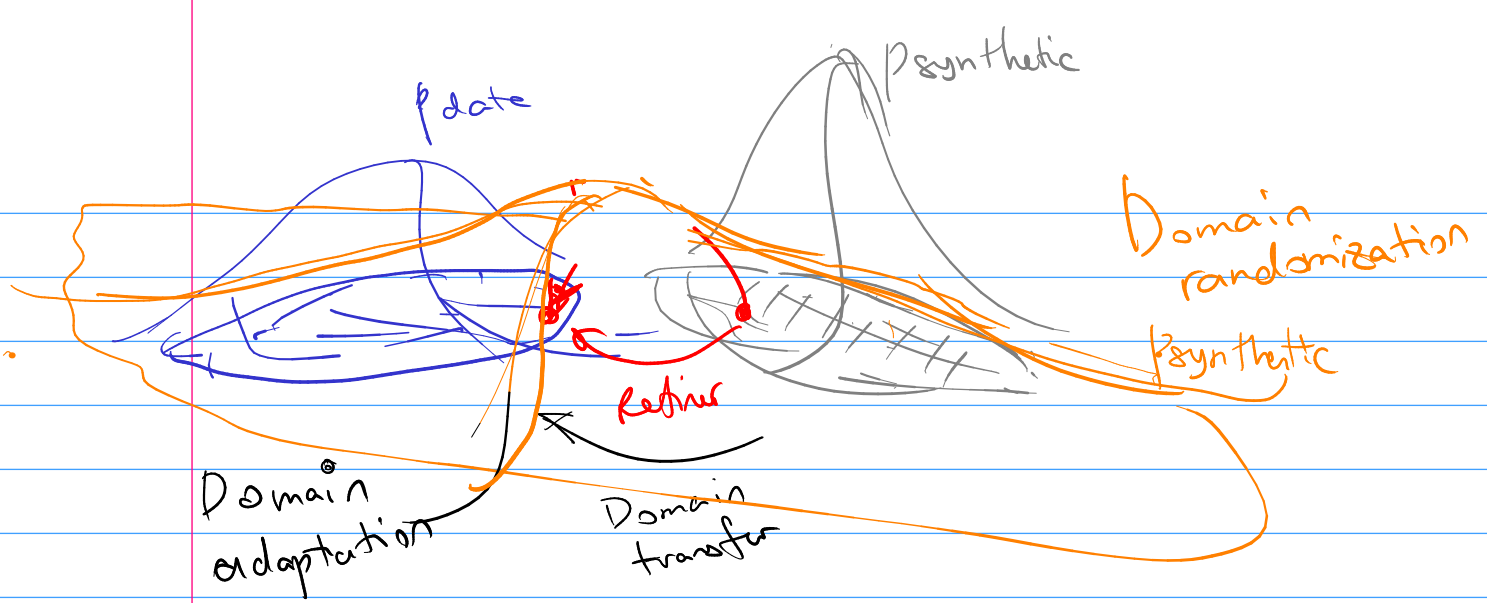
neural  
architecture  
search

Quoc Le

Swish

EfficientNet  
EfficientDet

MuJoCo



$$\pi = \bar{\varphi}^T \underline{\bar{w}}$$

$$Q_{\pi}(s, a) = \bar{w}^T \mathbb{E}_{\pi} \left[ \sum \gamma^{i-t} \bar{\varphi}_{i+1} \mid S_t = s, A_t = a \right]$$

$$Q_{\pi}(s, a) = \bar{w}^T \underline{\bar{\Psi}_{\pi}}$$

Successor  
features