Simplification

Encoder-decoder framework – yes, but the network might learn just to **copy** the content... How do we force it to **simplify**?

Reinforcement learning can be used to do weak supervision.

- Action: output next word y_j
- **Policy:** $p(y_j|\mathbf{x},y_1,...y_{j-1})$
- Reward: Adequacy + Fluency + Simplicity

Rewards come only when the whole sequence is generated.

Zhang, Lapata. Sentence Simplification with Deep Reinforcement Learning, 2017.