

Weekly report

Aug. 12 – Aug. 16

Chengyu
Aug.19

Progress

- Build a system on the new dataset
- Improvements
 - Objects are now specified
 - Gender is now specified
 - Support the variety of mentioned subjects. E.g. boy and man
 - No need to explicitly mention subjects

Progress

- A better discriminator or a better generator
- Next:
 - Flexibly pick the proposals of different methods
 - layout inference. Needs the reuse of current material

Progress

Skills

- Learned about sophisticated textual embedding techniques
- Related papers
 - Top-k Exploration of Query Candidates for Efficient Keyword Search on Graph-Shaped (RDF) Data
 - A Semantic Approach to Recommending Text Advertisements for Images
- Related tools
 - [BabelNet](#)
 - [ConceptNet](#)
 - [Wikipedia-based Explicit Semantic Analysis](#)

To do

- A feature encoder that properly tackle the curse of dimensionality
- Synonym replacement to handle unseen tokens
- Make use of babelNet or ConceptNet to encode the similarity between tokens with different POS tags
- Optimization on the runtime efficiency