Inf Sci Master thesis topics

2019/2020

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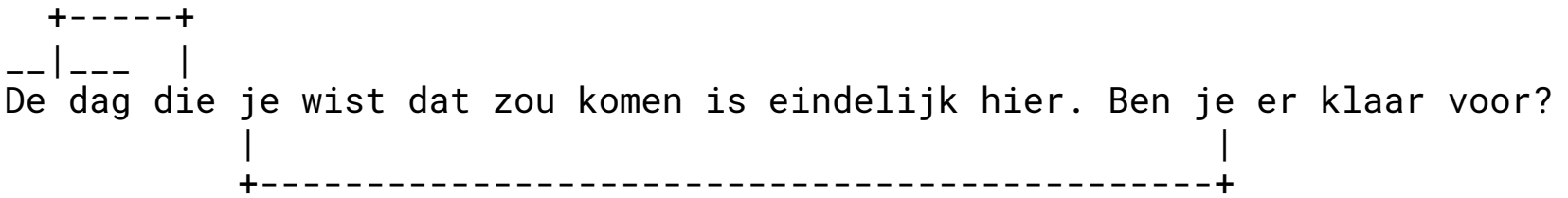
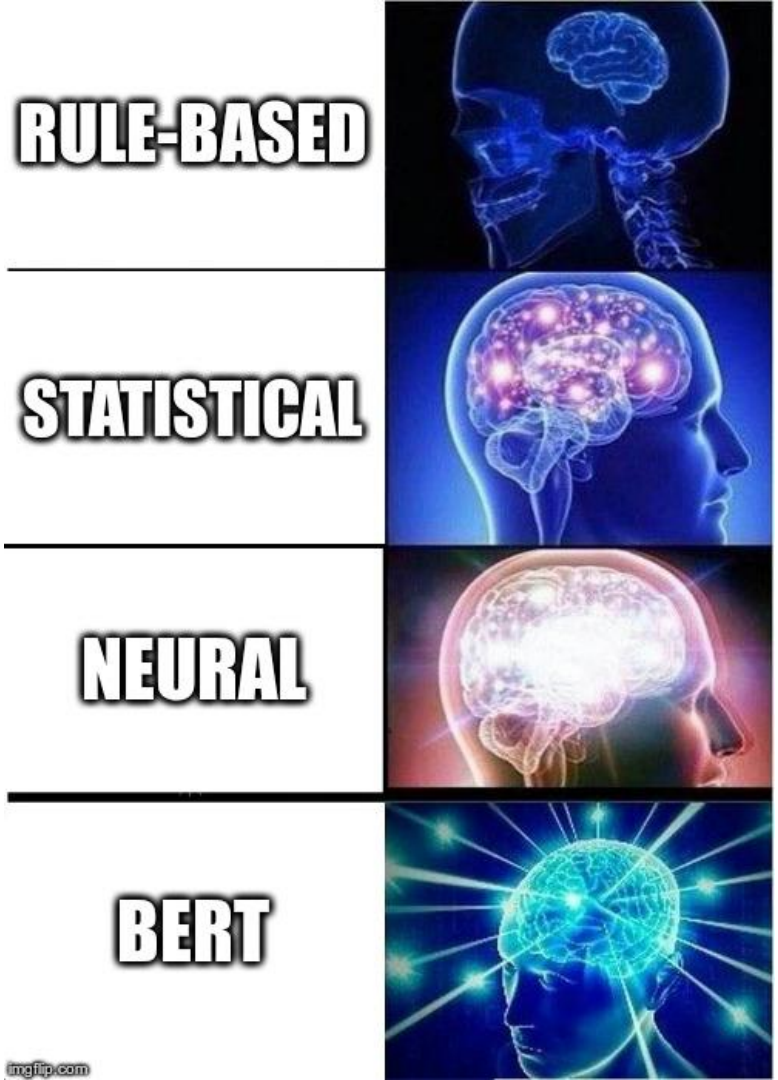
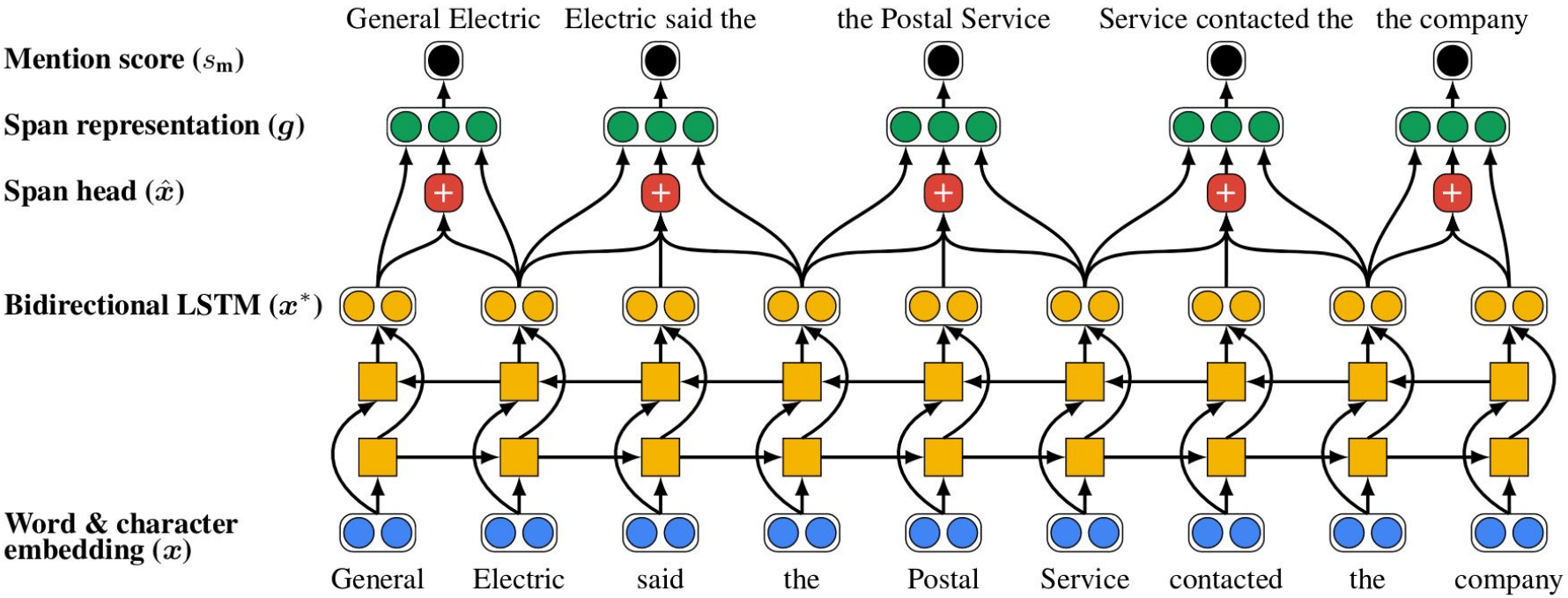
Dutch Coreference Resolution

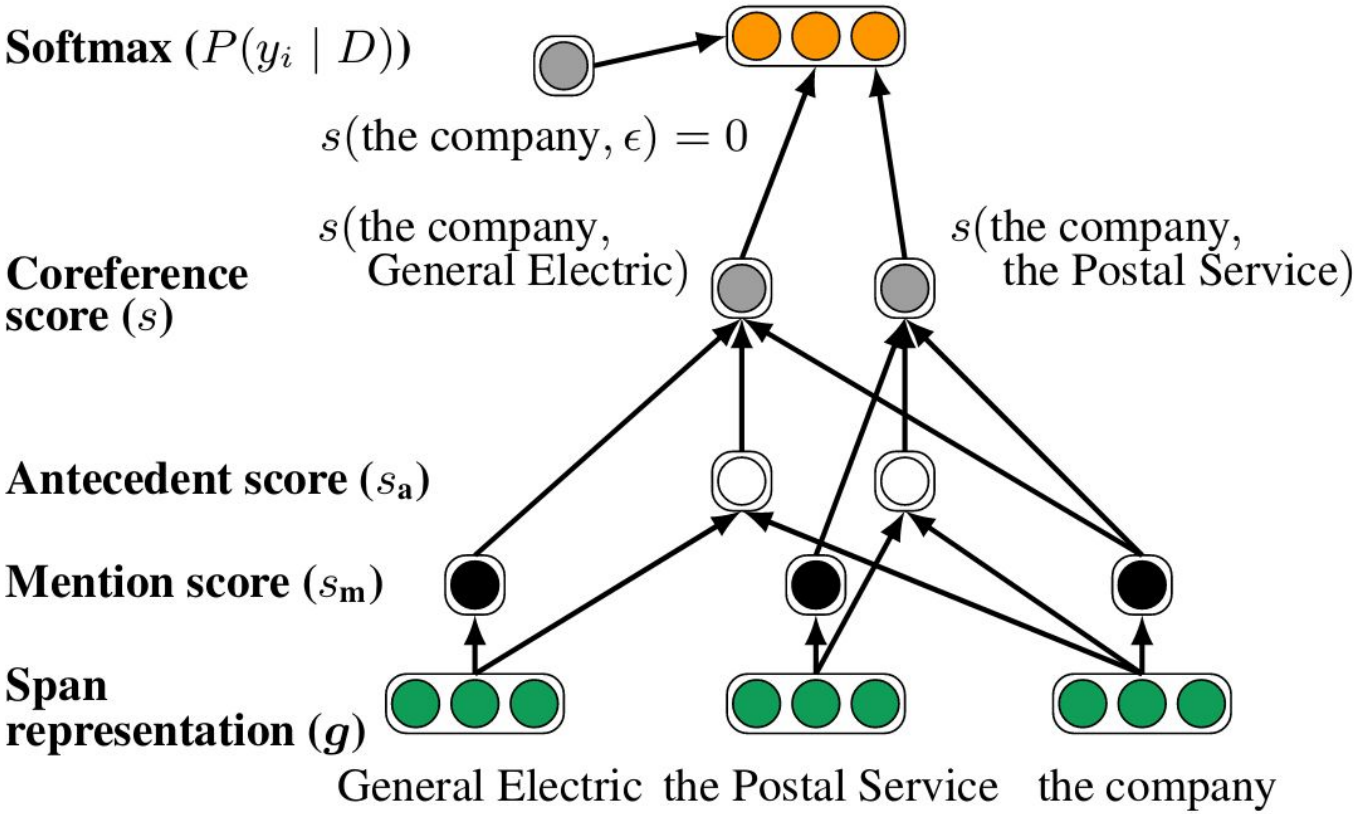




- Done.
- Your thesis?
- Your thesis?
- Stay tuned!



End-to-End Neural Coreference Resolution (Lee et al. EMNLP 2017)



End-to-End Neural Coreference Resolution (Lee et al. EMNLP 2017)

End-to-End Neural Coreference for Dutch

1. Convert SoNaR-1 data to CoNLL 2012 format
   Scripts: https://github.com/cltl/FormatConversions/tree/master/mmax2conll
   Need to fix some conversion issues.

2. Train End-to-End Neural Coreference system (Lee et al. EMNLP 2017)
   Need to adapt existing code (replace word embeddings):
   a. https://github.com/shayneobrien/coreference-resolution
   b. https://github.com/vmath89/Coreference-Resolution
   c. https://github.com/kentonl/e2e-coref
   d. http://zil.ipipan.waw.pl/Corneferencer
3. State-of-the-art results for Dutch!

http://andreasvc.github.io

Better Dutch Coreference Resolution with Classifiers

Improve one or more components:

- Pronoun resolution
- Quote attribution
- Gender/animacy of NP
- Mention detection/spans
- Pleonastic pronoun detection

Heeyoung Lee et al. (NLE 2017) A scaffolding approach to coreference resolution integrating statistical and rule-based models.

Procedure:

1. Acquire/annotate (more) data
2. Train supervised classifier
3. Integrate in coreference system
4. Better coreference scores! (literature, shared tasks)

http://andreasvc.github.io