

Text VQA Challenge Team-Schwail



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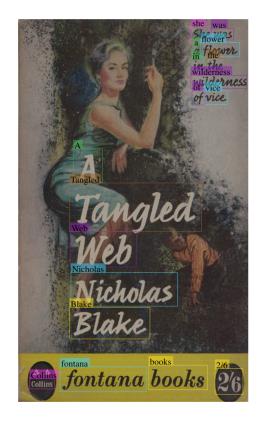
Alex Schwing UIUC

Final Result

Method	Test Accuracy
Image Only Baseline	5.88
Pythia Baseline	14.01
LoRRA	27.63
Ours	30.54

• Including n-grams

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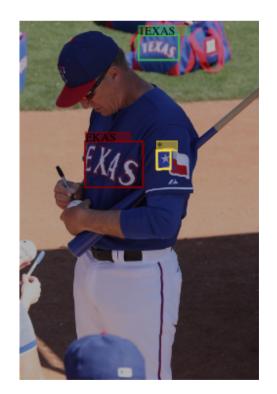


What is the book called?

A Tangled Web

- Including n-grams
- Spell Correcting OCR

- Including n-grams
- Spell Correcting OCR



What is the state on his jersey?

- Including n-grams
- Spell Correcting OCR
- Vocabulary Expansion

- Including n-grams
- Spell Correcting OCR
- Ensembling & Vocabulary Expansion
 - Brands
 - States



What brand of beer is it?
Heineken

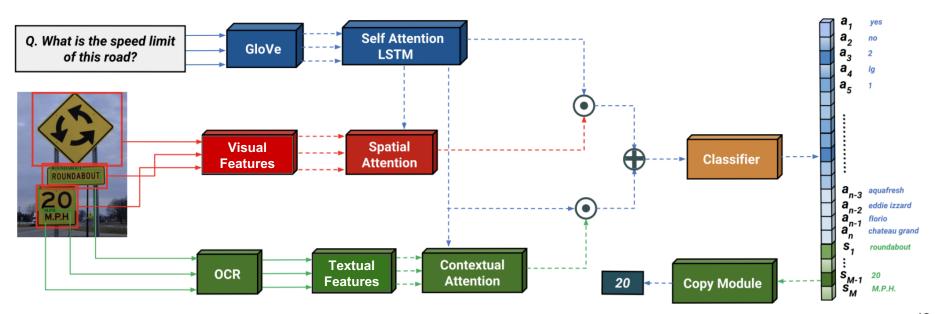
- Including n-grams
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 - Brands
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 - Adding OCR ∩ English vocabulary

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- Shuffling OCR
- Data Augmentation from Scene-Text

What Didn't Work

LoRRA only uses visual features for object bounding boxes and textual features for OCR.

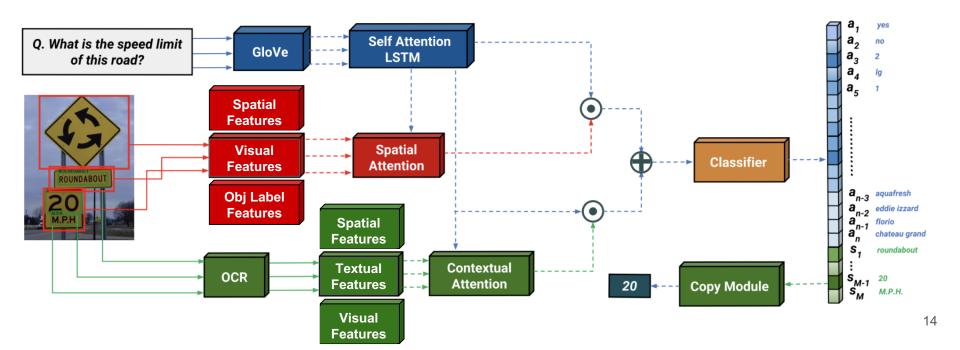


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What Didn't Work

- Using visual features
- Using textual/object label features
- Using spatial Features

How you fuse feature matters!



Additional interesting sub-problems

- Learning to read time
- Learning to read logos
- Learning to reason about substrings in OCR



What is the clock's time?

11:38



What logo is on the phone?

Apple



What is the last letter in the name of the wine?

Thank you