

Josiah Wang



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Phrase Localization Without Paired Training Examples

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multimT



Phrase Localization

the handles of the slide



How is this tackled?

Phrase Localization

with strong supervision



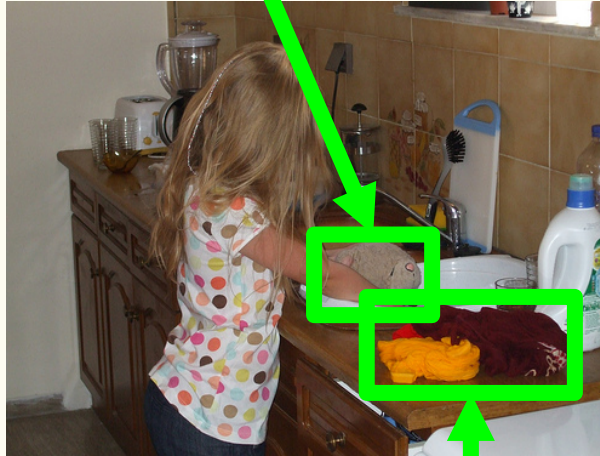
Phrase Localization

with strong supervision



the handles of the slide

a stuffed animal



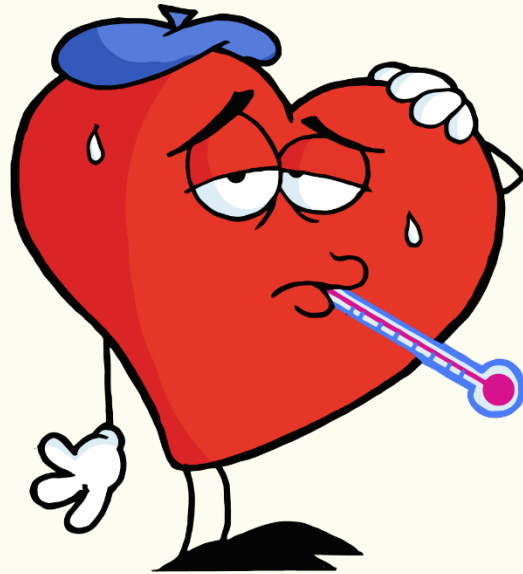
a few wet items



silver shorts

Phrase Localization

with weak supervision



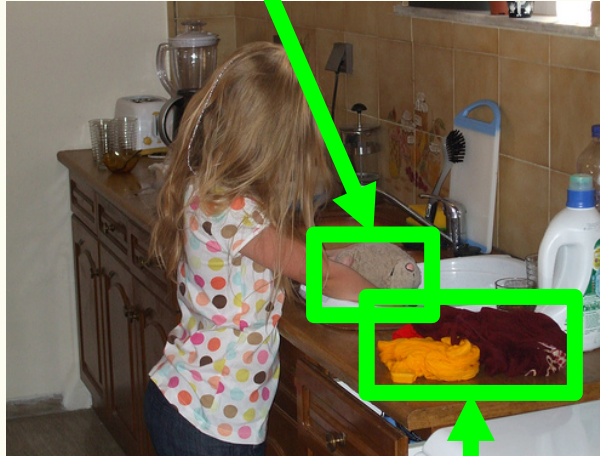
Phrase Localization

with weak supervision



the handles of the slide

a stuffed animal



a few wet items



silver shorts

Phrase Localization

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the handles of the slide

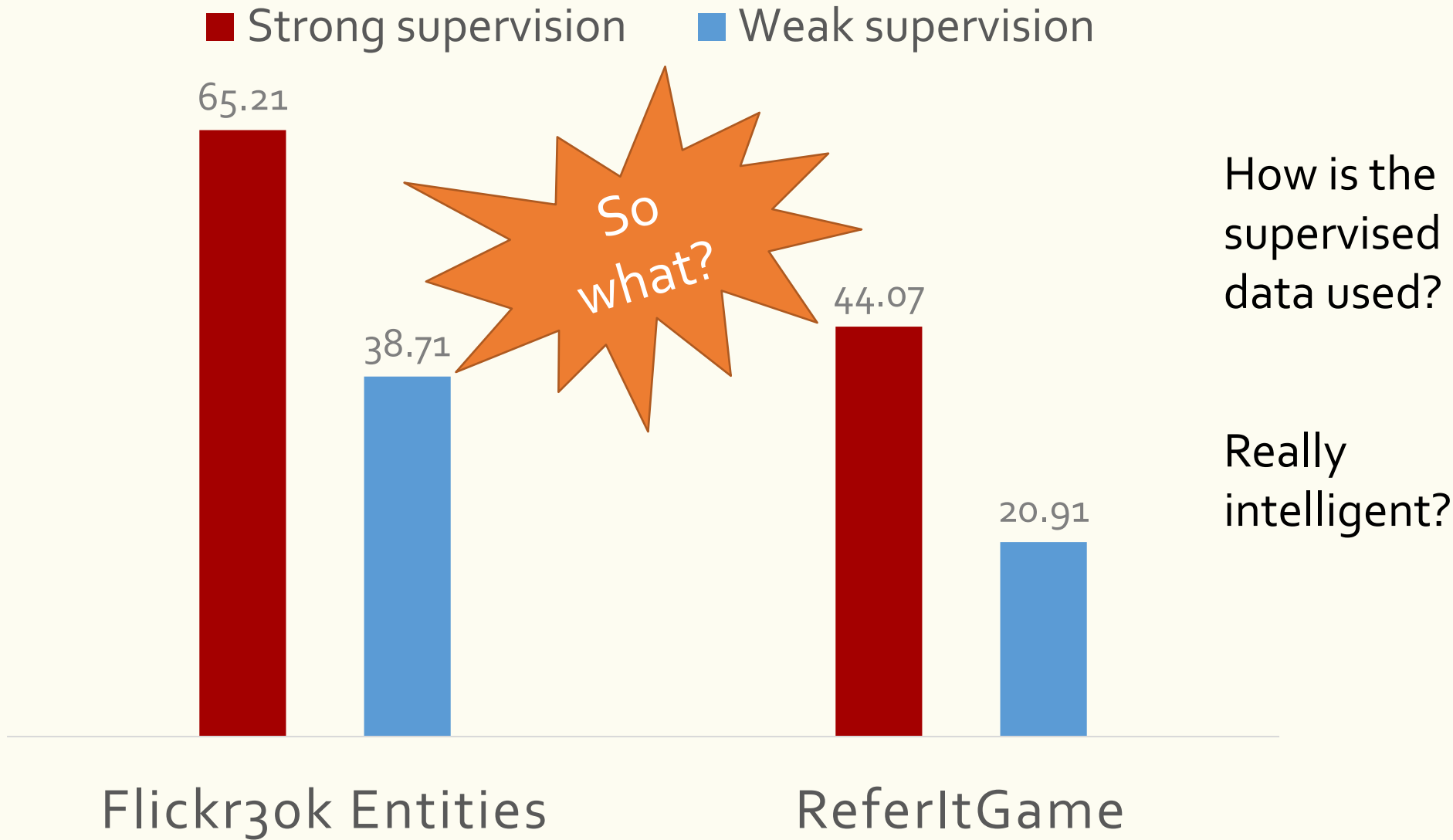
a stuffed animal



a few wet items



silver shorts





Memorize
all the phrases
with their
images!!!!





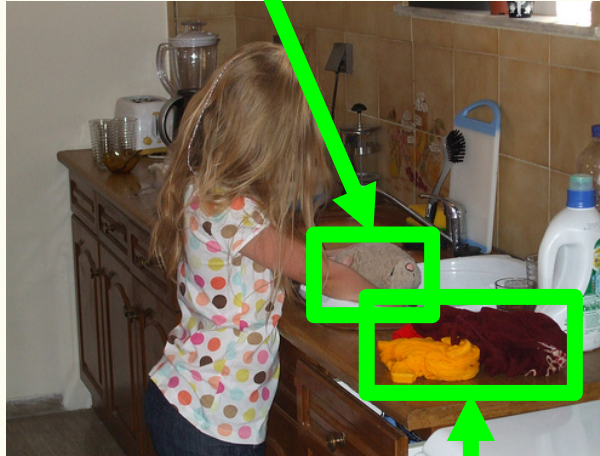
Phrase Localization

with NO paired data



the handles of the slide

a stuffed animal



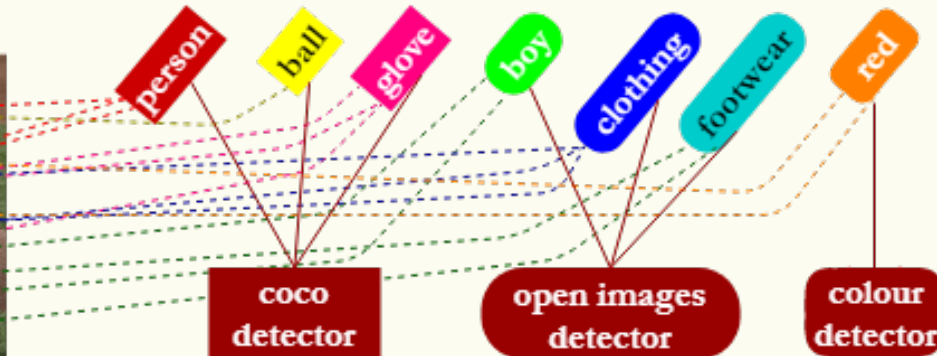
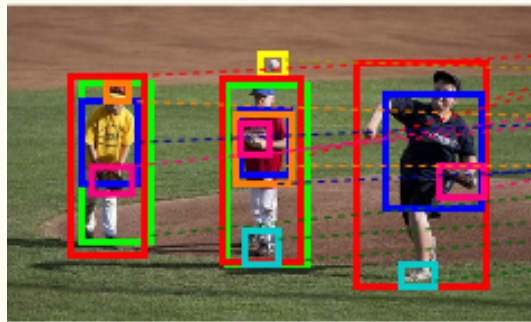
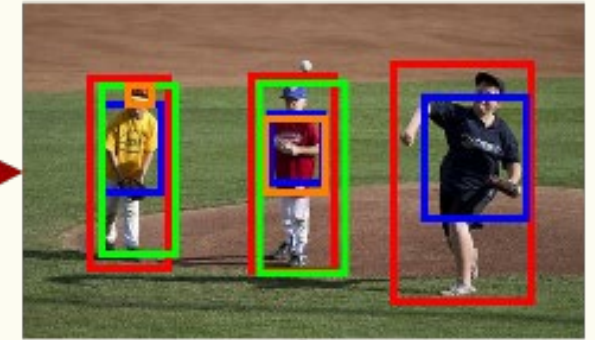
a few wet items



silver shorts

boy in red shirt

	0.30	0.26	0.30	0.63	0.37	0.18	0.55
boy	0.34	0.21	0.20	1.00	0.10	0.03	0.10
red	0.09	0.15	0.16	0.10	0.10	1.00	
shirt	0.16	0.24	0.29	0.22	0.42	0.29	0.26



1

Detect instances

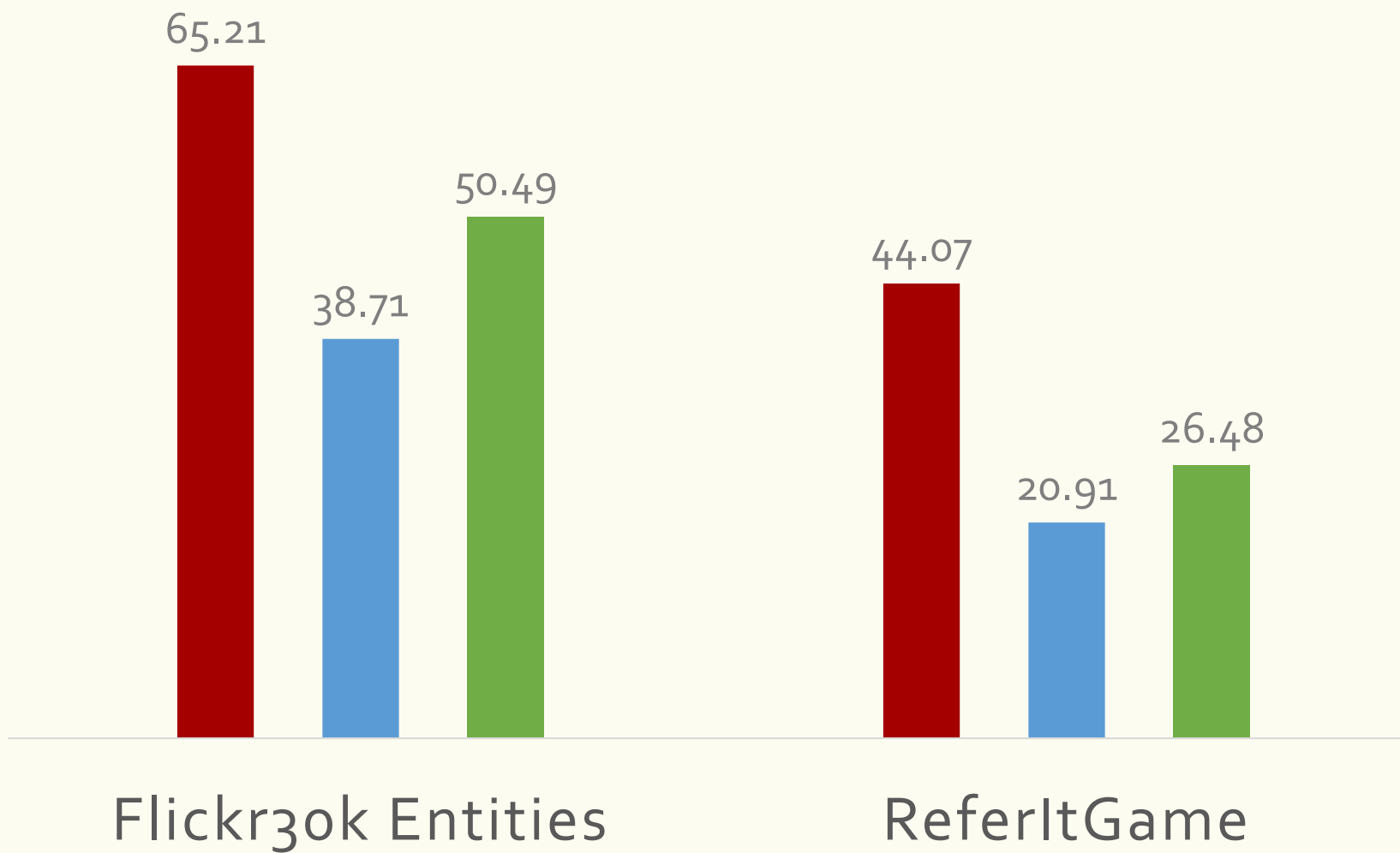
2

Filter concepts

3

Localize

■ Strong supervision ■ Weak supervision ■ Non-paired



Non-paired setting
as a strong baseline

Simpler general methods *vs.*
complex specialized methods

More effective use of paired data

...on top of what can already be achieved without.
Better generalization?

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Poster #24



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