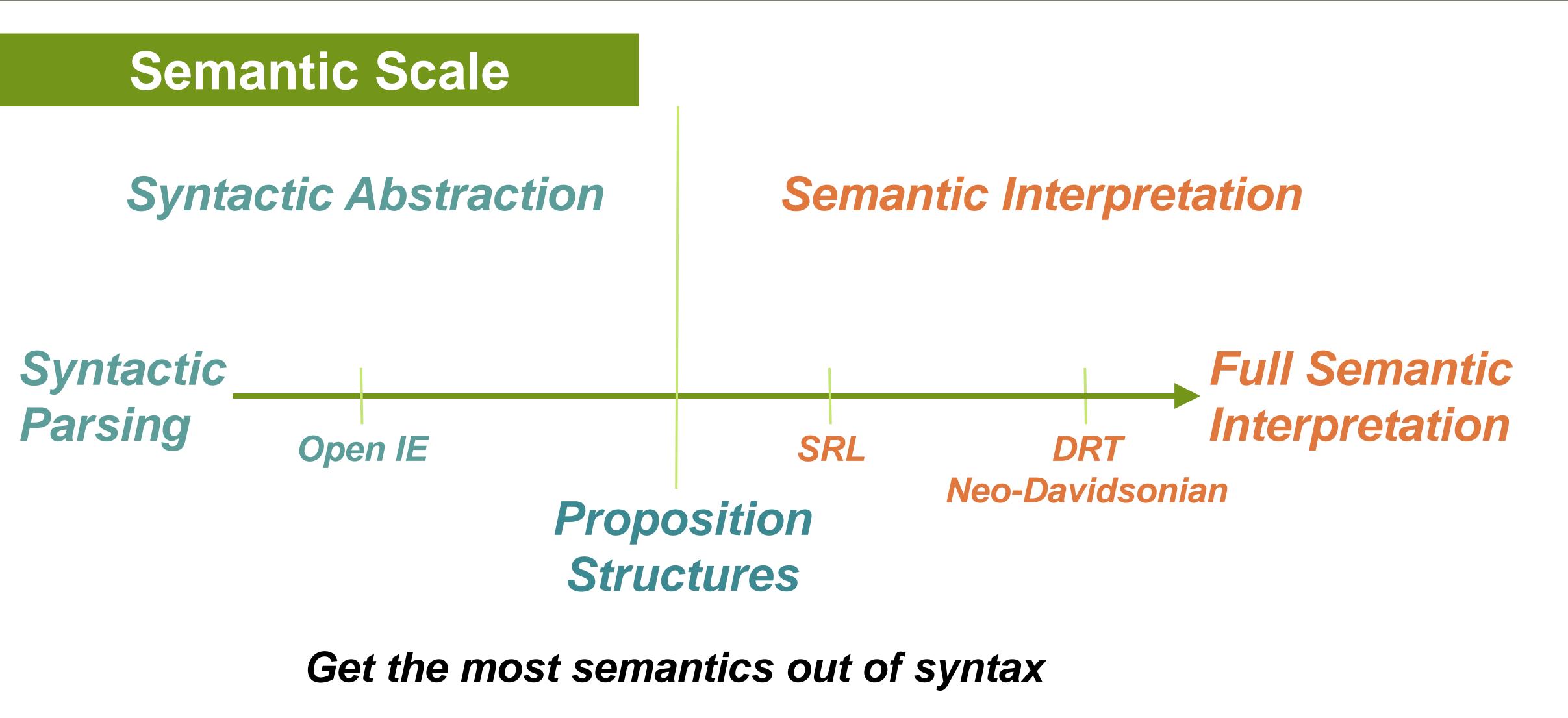
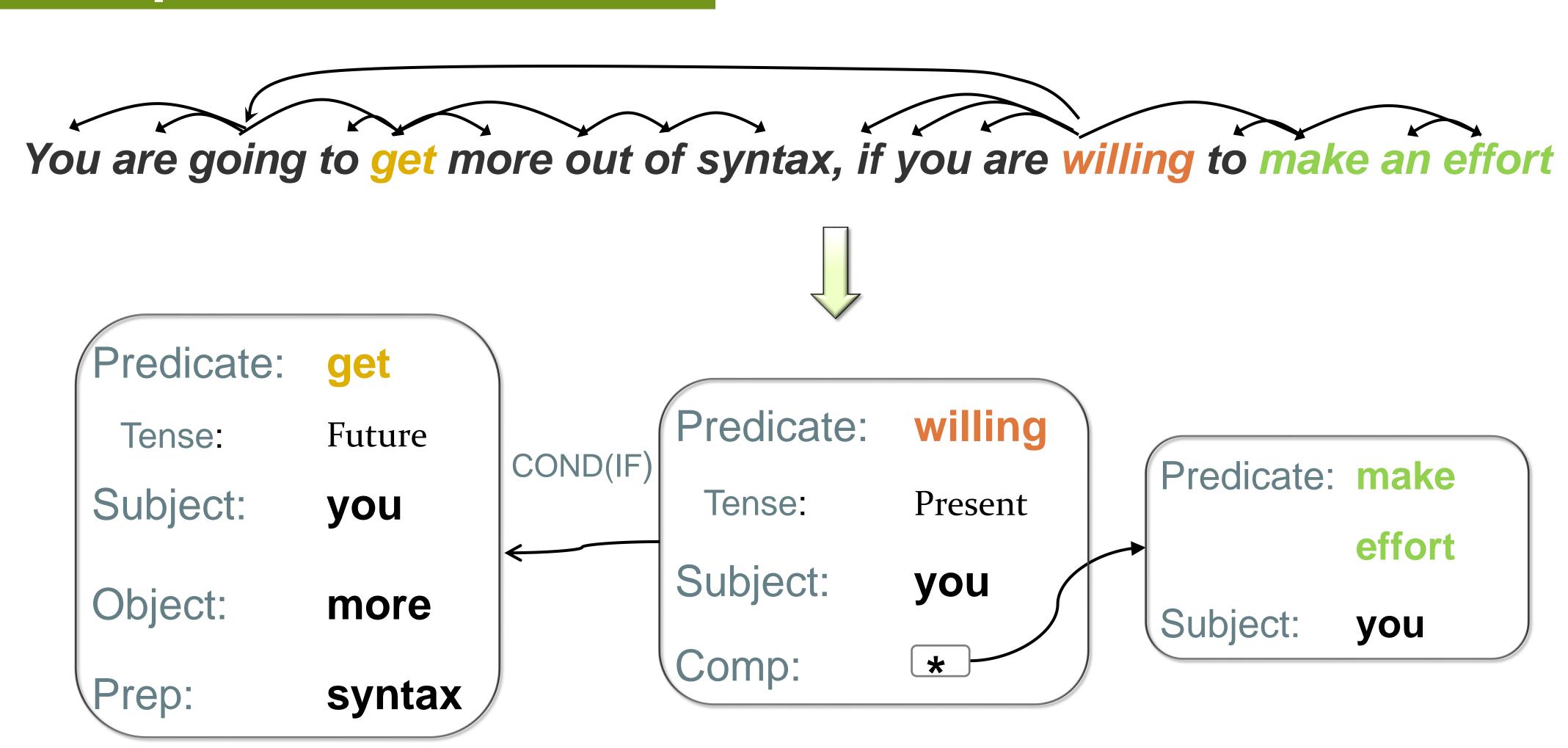


# Intermediary Semantic Representation through Proposition Structures

Gabriel Stanovsky, Jessica Ficler, Ido Dagan and Yoav Goldberg



## Proposition Structure

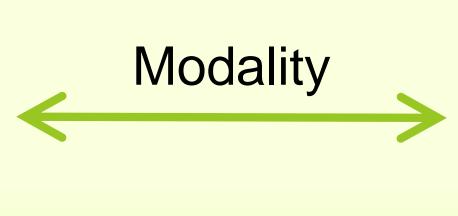


## Syntactic Abstraction

• Canonicalization modality, tense, factuality, passive vs active, truth status

"Selfies may be used as passwords"

"The economy is going to slip into recession"



"Selfies can be used as passwords"

Future Tense

Markers

S

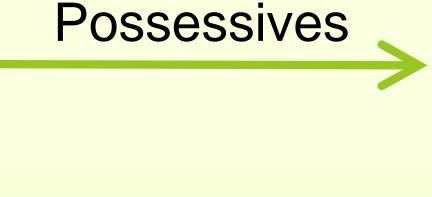
"The economy will slip into recession"

Implied Propositions

possessives, appositions, nominalizations, adjectives, conditionals

"Stalin's joke sums up Obama's dilemma"

"The company, Random House, doesn't report its earnings" -



dilemma

Stalin has a joke &

Obama has a

# Why Should We Use It?

- Compared to dependency parse:
- Making hidden semantics explicit and canonical
- Removing syntactic clutter
- Better starting point for semantic processing

### Soon!

- Automatic conversion of PTB to proposition structures
- Formal guidelines of proposition structures

#### Down the Road

- Automatic parser for producing proposition structures from raw text
- Representation of discourse
   level proposition structures