

ToBI

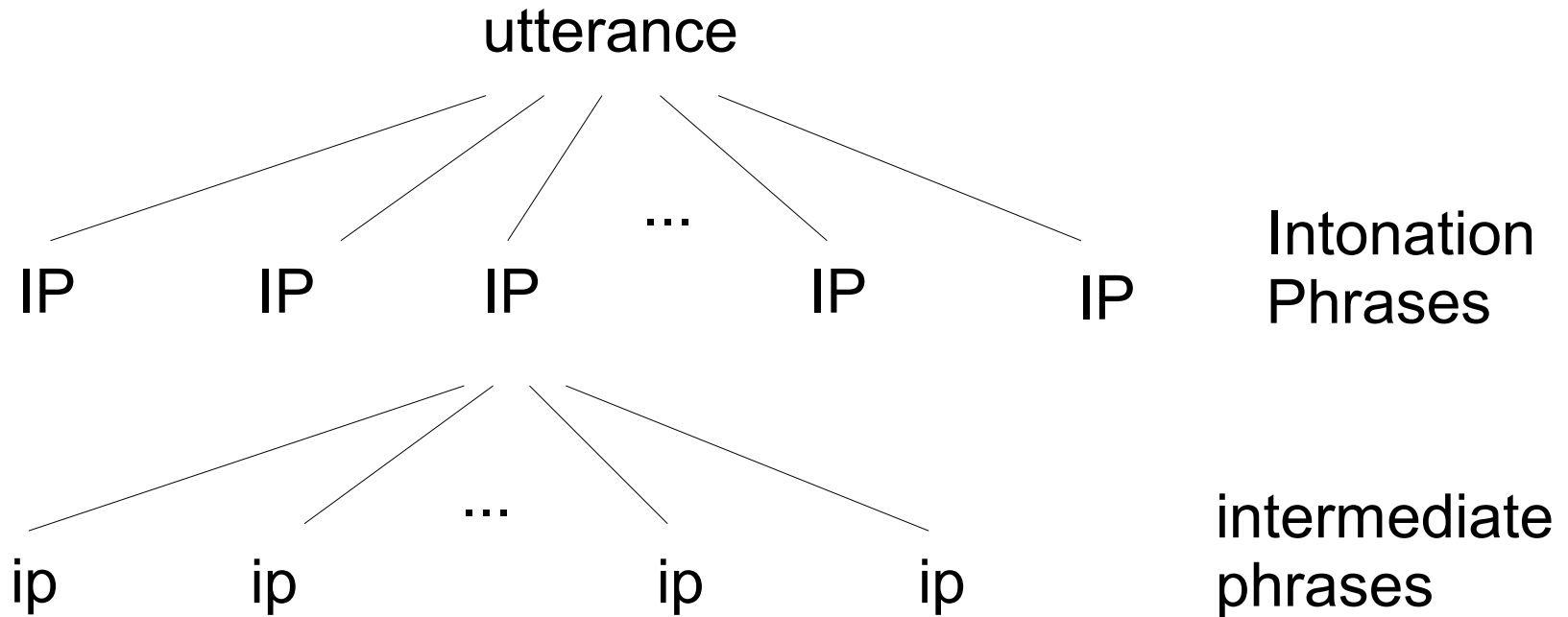
- Tones and Break Indices
- Labeling system for intonation, following Pierrehumbert's Tone Sequence Model
- today: only the "Tones" Part

ToBI - Idea

- independent pitch accent categories associated with stressed syllables
- categories of boundary tones and phrase accents associated with phrase-final syllables
- categories consist of (sequences of) high and low targets, H and L

Hierarchy of prosodic phrases (1)

all ToBI variants assume hierarchical prosodic structure



Hierarchy of prosodic phrases (2)

- each **IP** contains one or more **ips**
- each **ip** contains one or more pitch accents
 - nuclear accent = most prominent accent
 - some claim: last accent always nuclear
- **IP** boundaries are associated with **boundary tones**
- **ip** boundaries are associated with **phrase accents**

Pitch in Prosodic Phrases



Pitch range decreases in the course of an utterance

GToBI(S)

- Mayer (1995)
- ToBI-based labeling system used in Stuttgart
- builds on Fery's (1993) analysis of German intonation and on ToBI
- similar to "popular" GToBI as used in Cologne
- pitch accent and phrase accent inventory simplified in GToBI(S)
- motivation: use only events that are clearly different perceptually

Differences to GToBI

- inventory: H*L, L*H, HH*L, L*HL, H*M
no + diacritic for trailing and leading tones
tritone accents, M target
- three **allotonic variants** for H*L and L*H
prenuclear H*L can be realized as
 - H* ..L (partial linking)
 - H* (complete linking)prenuclear L*H
 - L* ..H (partial linking)
 - L* (complete linking)
- phrase accent inherited from preceding target
(underspecification obligatory)
- boundary tone: underspecification optional

GToBI (S)

- described in Mayer (1995, manuscript)

<http://www.ims.uni-stuttgart.de/institut/arbeitsgruppen/phonetik/papers/STGTsystem.pdf>

- Examples discussed today: from the Cologne GToBI site

<http://www.gtobi.uni-koeln.de/index.html>