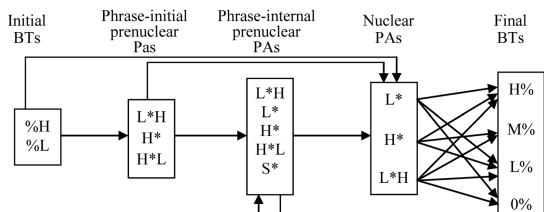


1 Previous research on Czech intonation

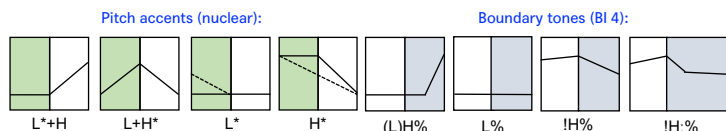
- Descriptive works:**
 - Petrík 1935; Mathesius 1937; Ondráčková 1954; Daneš 1957; etc.
- Duběda 2014: *Czech intonational grammar* (AM-Model; see Pierrehumbert 1980; Gussenhoven 2004):



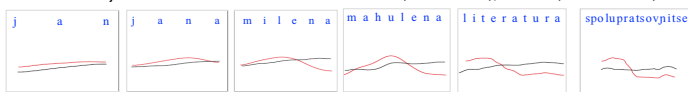
3 Creating a Czech ToBI

Methodology

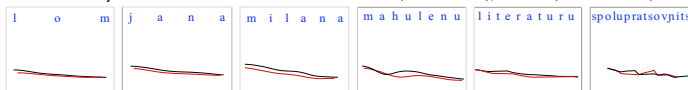
- Data:** Discourse completion task, supplementary reading materials (more than 300 sentences)
- 10 speakers:** South Moravian dialect
- Acoustic analysis:** Praat (Boersma & Weenink 2016)



SVO: F0 of subjects with different number of σ : black line (broad focus), red line (narrow focus):

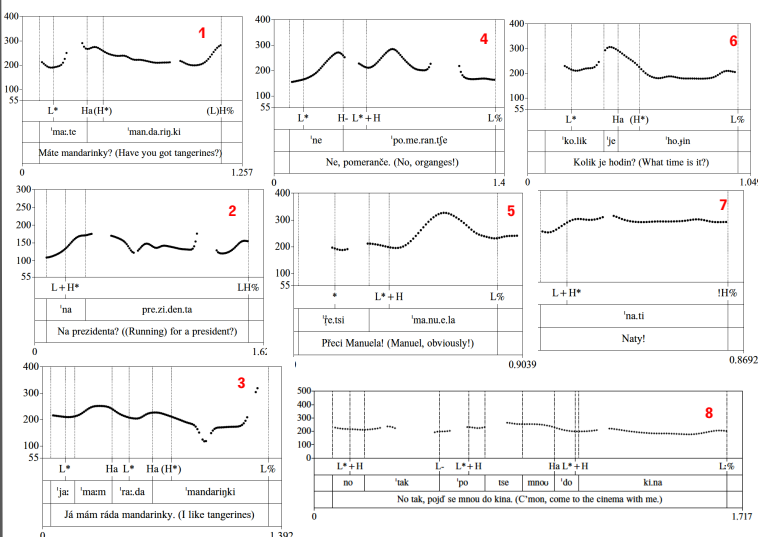


SVO: F0 of objects with different number of σ : black line (broad focus), red line (narrow focus):



Inventory of Czech nuclear configurations, and their use in sentence types

1 L* / L*+H (L)H%	Neutral, echo, confirmatory, imperative, and polite yes-no question.
2 L*+H / L+H* LH%	Counter-expectative yes-no question.
3 H* / L* L%	Broad focus statement. Exhort / request (neutral). Order / imperative. Exclamative wh-question. Exhortative wh-question.
4 L+H* / L*+H L%	Narrow focus statement (Fc = object).
5 L*+H L%	Emphatic exclamative. Obviousness statement. Order / imperative. Hesitation statement. Exhort / request (neutral).
6 L* / H* L%	Neutral and imperative wh-question.
7 L*+H / L+H* !H%	Neutral and insistent vocative.
8 L*+H / H* !H% / L% / L%	Exhort / insistent request (familiar).



4 Remaining issues

- Determination of the **prosodic hierarchy**: IP > ip > AP > ω ?
- Closer defining of **AP** = possible to have more than one prosodic word ?
- Further strategies** (e.g. particles) which impact on pragmatic meaning ?
- Modeling and explaining the observed **variation** in the data.

2 Some (basic) prosodic properties

- Stress rule:** fixed word-initial stress
- Acoustic parameters for stress:**
 - *intensity, *F0-rise on a stressed σ , *V length or *V quantity
- What is the most important cue for recognition of stress? > **AP** ?

PROPOSAL: Czech is an accentual (phrase) language

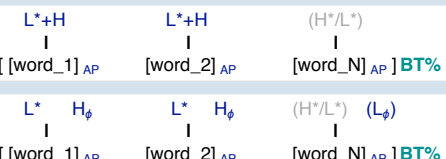
(cf. French, Hindi, Bengali, Slovak, Hungarian / see e.g. Jun & Fletcher 2014; Beňuš et al. 2014)

its prosody is **left-headed**

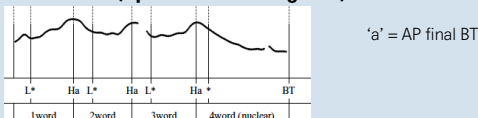
AP = rhythmic group from * σ to * σ /BI3/BI4; one pitch accent

Hindi type?
(Sengar & Mannell 2012)
or

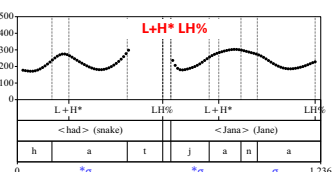
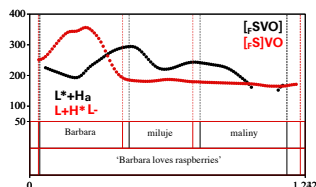
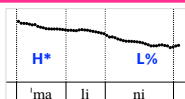
Bengali type?
(Hayes & Lahiri 1991)



Default tonal pattern of the AP: (optional initial high BT) **L* Ha**



- Isolated p-words:
 - ❖ Falling pattern: **H* L**
- P-words in a context:
 - ❖ prenuclear (non-final) non-focal element: **L* Ha**
 - ❖ non-final focal element: **L+H* L-**
 - ❖ **Observation:** the alignment changes according to the length of the (p-)word (see Section 3)



References

- Beňuš, Š. & U. Reichel & K. Mády. 2014. Modeling Accentual Phrase Intonation in Slovak and Hungarian. In: Veselovská, L.; Janebová, M. (Hrsg.): Complex Visibles Out There. Olomouc modern language series, Bd. 4. Olomouc, Czech Republic: Palacký University, S. 677-689. Daneš, F. 1957. Intonace a věta ve spisovné češtině. Praha: Nakladatelství Československé akademie věd. Duběda, T. 2014. Towards an inventory of pitch accent for read Czech. Slovo a slovesnost 72, 3-11. Gussenhoven, C. 2004. The Phonology of Tone and Intonation. Cambridge, MA: MIT Press. Mathesius, V. 1937. Mluvní takt a některé problémy příbuzné. Naše řeč 33(4), 193-199. Ondráčková, J. 1954. O mluvním rytmu v češtině. Slovo a slovesnost 15(4), 145-157. Petrík, S. 1935. K intonaci věty. Intonace pozdravů a jiných výrazů zdvořilostních. Naše řeč 33(3-4), 62-68. Prieto, P., et al. 2015. Intonational phonology of Catalan and its dialectal varieties. In: Intonational Variation in Romance (eds. S. Frota & P. Prieto), 9-62. Sengar, A. & R. Mannell. 2012. A Preliminary Study of Hindi Intonation. ASSTA. 149-152.

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