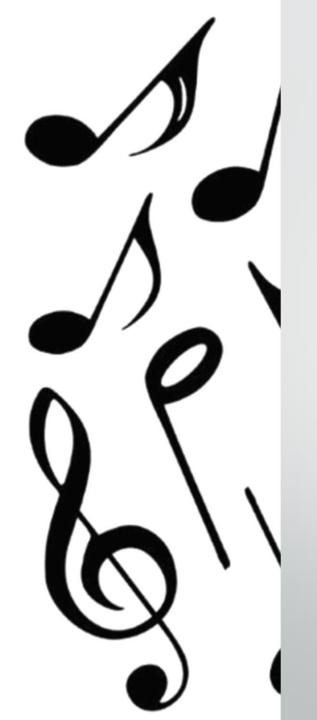
# The Complicated Case of **Open and Automatic Corpus-use – Prosodic Clashes of Music and** Language

DHN2018

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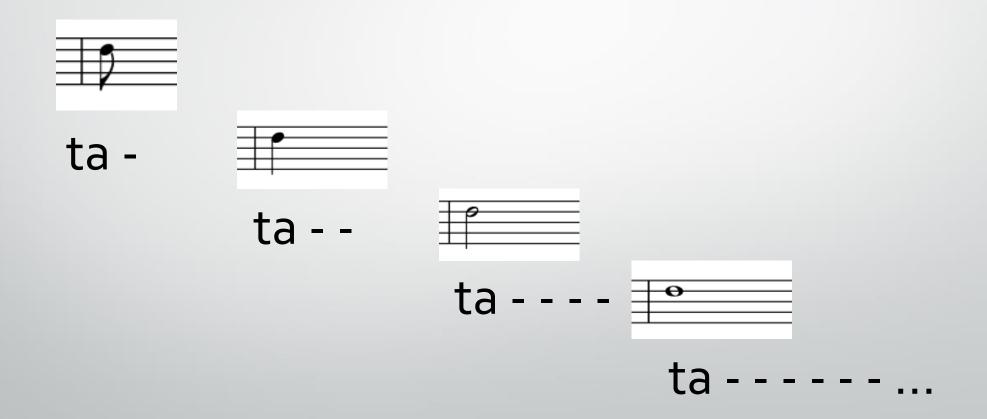
Mar 9, 2018



## Key Concepts

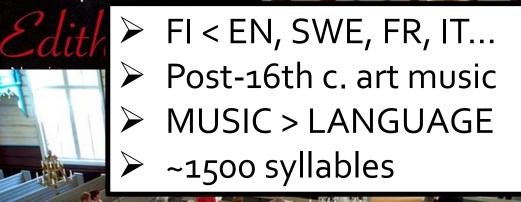


#### Clashes in segment length



3







Strophe 1:	
Sibenzerlegung:	
(Friedlich) (beikamipfen)	
(Nacht) (sich) (und) (Tag) .	
(Wie) (das) (zu) (dāmļpfen) ,	
(Wie) (das) (zu) (löjsen) (verimag) i	
Metrik:	
Silben=5, Betonung="++-"	
Silben=4, Betonung="++"	
Siben=5, Betonung="++-"	
Silben=7, Betonung="+-+++"	
Reim:	
Endreim="abab" (Kreuzreim)	
Klassfikation nach Frank:	
unbekannt	
Klassifikation nach Schlawe:	
4.73	
Strophe 2:	
5ibenzerlegung:	
(Der) (mich) (be drúck te),	
(Schläfst) (du) (schon) , (Schmerz) ?	
(Was) (mich) (beg lück te) ,	
(Sa[ge), (was) (wars) (doch), (mein) (Herz)?	
Metrik:	
Siben=5, Betonung="++-"	
Silben=4, Betonung="++"	
Siben=5, Betonung="++-"	
Silben=7, Betonung="+-++++"	
Reim:	
Epdrein="ahah" (Kreuzrein)	
30	

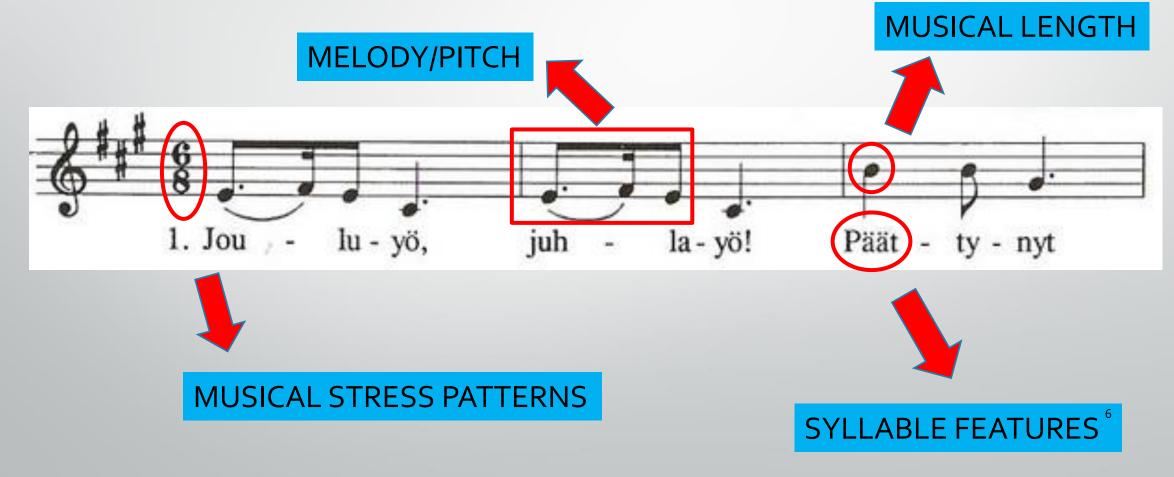
	Syl1	Syl 2	Syl 3	Syl 4	Syl 5	Syl 6	Syl 7	Syl 8	Syl 9	Syl 10	Syl 11
S1V1	Was 0	glänzt +++	dort 0	vom 0	Wal x	de -	im 0	Son x+++	nen -	schein? ++	
\$1V2	Hör's +	nä x+	her -	und -	nä x+	her -	brau x++	sen.			
\$1V3	Es 0	zieht ++	sich 0	her x	un +	ter -	in 0	düs x+	te 0	ren -	Reihn, +++++
S1V4	Und 0	gel x+	len -	de -	Hör x+	ner -	schal x+	len -	dar x	ein +	
\$1V5	Und 0	er x	fül ++++	len -	die -	See x++	le -	mit 0	Grau x++	sen.	
S1V6	Und 0	wenn ++	ihr 0	die -	schwa x+	rzen -	Ge x	sel ++	len -	fragt: +++	
S1V7	Das 0	ist 0	Lüt x+	zows 0	wil x	de, -	ver x	we ++	ge 0	ne 0	Jagd. <sup>5</sup> ++++

Bobenhausen, Klemens. 2011. The Metricalizer – Automated Metrical Markup of German Poetry. In: Küper, C. (ed.), *Current trends in metrical analysis*, pp. 119-131. Frankfurt am Main; New York: Peter Lang.

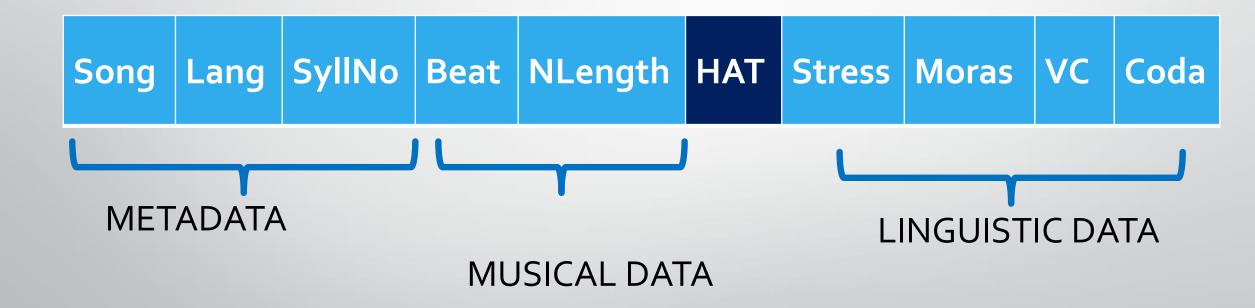
#### Automated metrical analysis

Musical rhythm is less predictable and not analysable from text alone

# Automatization? Many layers of information to retrieve



#### Manual annotations for R analysis





## Separate automatic analyses?

- Automatic speech analysis?
- Text parsing for syllable features?
- Melody extraction?
- Music score analysis?



#### Open science with music research?

LYRICS?

SHARING?

**COMPOSITION?** 

**PERFORMANCE?** 

NOTATION (PUBLISHERS)?

**REPRODUCIBILITY?** 

#### Conclusions

- Many layers of information in different medias
  - How to increase the size of a song corpus?
- No easily accessible corpora comparable to those of written or spoken language
- What can be taken and shared?

Music linguistic study of songs is complicated

### Thank you! Contact: heini.arjava@helsinki.fi