



A Metrical Analysis of Medieval German Poetry Using Supervised Learning

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Specialty section:

This article was submitted to
Digital Literary Studies,
a section of the journal
Frontiers in Digital Humanities

Received: 17 August 2017

Accepted: 26 June 2018

Published: 18 July 2018

Citation:

Hench C and Estes A (2018) A
Metrical Analysis of Medieval German
Poetry Using Supervised Learning.
Front. Digit. Humanit. 5:19.
doi: 10.3389/fdigh.2018.00019

Middle High German (MHG) epic poetry presents a unique solution to the linguistic changes underpinning the transition from classical Latin poetry, based on syllable length, into later vernacular rhythmic poetry, based on phonological stress. The predominating pattern in MHG verse is the alternation between stressed and unstressed syllables, but syllable length also plays a crucial role. There are a total of eight possible metrical values. Single or half mora syllables can carry any one of three types of stress, resulting in six combinations. The seventh value is a double mora, i.e., a long stressed syllable. The eighth value is an elided syllable. We construct a supervised Conditional Random Field (CRF) model to predict the metrical value of syllables, and subsequently investigate medieval German poets' use of semantic and sonorous emphasis through meter. The features used are: (1) the syllable's position within the line, (2) the syllable's length in characters, (3) the syllable's characters, (4) elision (last two characters of previous syllable and first two characters of focal syllable), (5) syllable weight, and (6) word boundaries. Additional metrical rules are enforced and marginal probabilities are calculated to yield the most likely legal scansion of a line. The model achieves a weighted average F-score of 0.925 on internal cross-validation and 0.909 on held-out testing data. We determine that trochaic alternation with a one syllable anacrusis and words carrying clear stress assignment are the easiest for the model to scan. Lines with multiple double morae of syllables with few characters are the most difficult. We then rank all the epic poetry in the Mittelhochdeutsche Begriffsdatenbank (MHDBDB) by the difficulty of the meter. Finally, we investigate the double mora, which MHG poets used to draw attention to chosen concepts. We conclude that poets generally chose to use the double mora to emphasize highly sonorant words.

Keywords: poetic meter, Middle High German, scansion, epic poetry, supervised machine learning, medieval literature

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Table of Contents Formal Aspects Of Medieval German Poetry A Symposium

1. Understanding the eBook Formal Aspects Of Medieval German Poetry A Symposium
 - The Rise of Digital Reading Formal Aspects Of Medieval German Poetry A Symposium
 - Advantages of eBooks Over Traditional Books
2. Identifying Formal Aspects Of Medieval German Poetry A Symposium
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Formal Aspects Of Medieval German Poetry A Symposium
 - User-Friendly Interface
4. Exploring eBook Recommendations from Formal Aspects Of Medieval German Poetry A Symposium
 - Personalized Recommendations
 - Formal Aspects Of Medieval German Poetry A Symposium User Reviews and Ratings
 - Formal Aspects Of Medieval German Poetry A Symposium and Bestseller Lists
5. Accessing Formal Aspects Of Medieval German Poetry A Symposium Free and Paid eBooks
 - Formal Aspects Of Medieval German Poetry A Symposium Public Domain eBooks
 - Formal Aspects Of Medieval German Poetry A Symposium eBook Subscription Services
 - Formal Aspects Of Medieval German Poetry A Symposium Budget-Friendly Options

6. Navigating Formal Aspects Of Medieval German Poetry A Symposium eBook Formats
 - ePub, PDF, MOBI, and More
 - Formal Aspects Of Medieval German Poetry A Symposium Compatibility with Devices
 - Formal Aspects Of Medieval German Poetry A Symposium Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Formal Aspects Of Medieval German Poetry A Symposium
 - Highlighting and Note-Taking Formal Aspects Of Medieval German Poetry A Symposium
 - Interactive Elements Formal Aspects Of Medieval German Poetry A Symposium
8. Staying Engaged with Formal Aspects Of Medieval German Poetry A Symposium
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Formal Aspects Of Medieval German Poetry A Symposium
9. Balancing eBooks and Physical Books Formal Aspects Of Medieval German Poetry A Symposium
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Formal Aspects Of Medieval German Poetry A Symposium
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Formal Aspects Of Medieval German Poetry A Symposium
 - Setting Reading Goals Formal Aspects Of Medieval German Poetry A Symposium
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Formal Aspects Of Medieval German Poetry A Symposium
 - Fact-Checking eBook Content of Formal Aspects Of Medieval German Poetry A Symposium
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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