Carmina

Unlock The Rhythm Of Latin Poetry With Carmina

CSE 583 Final Project Presentation

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INTRODUCTIONS

Team

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Our vision

Carmina empowers classicists and digital humanities scholars to explore Latin poetry with ease, automating complex tasks like **scansion**, **alliteration detection**, and **text matching**.

By prioritizing **simplicity** and sustainability, **Carmina** bridges the gap between tradition and technology, making poetry analysis **accessible to everyone**.

INTRODUCTIONS

Goals

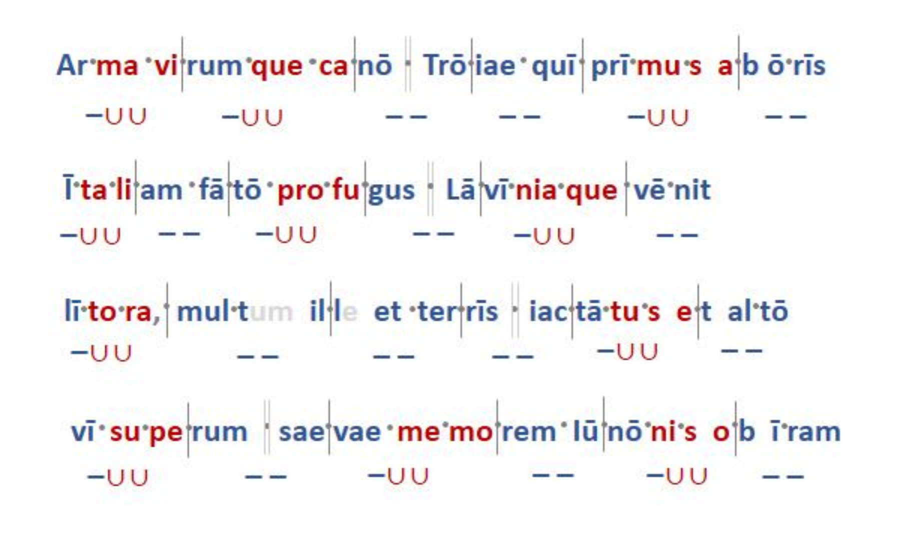
1 Employ a variety of literary analysis techniques like scansion, alliteration finding, and text matching to help a user analyze a segments of poetry.

2 Reading in XML and plaintext data; scanning dactylic hexameter; finding simple alliteration.

HIGHLIGHTS

Latin Meter & Scansion

- Latin poetry follows a strict rhythm based on the quantity of the vowel in each syllable. Each line of poetry divides into a **number of feet** (analogous to the measures in music).
- The syllables in each foot scan as “**long**” or “**short**” according to the parameters of the meter that the poet employs.



Ar·ma ·vi|rum·que ·ca|nō ‖ Trō|iae·quī|prī·mu·s a|b ō·rīs
–∪∪ –∪∪ – – – – –∪∪ – –

Ī·ta·li|am ·fā|tō ·pro·fu|gus ‖ Lā|vī·nia·que |vē·nit
–∪∪ – – –∪∪ – – –∪∪ – –

lī·to·ra,|mul·tum il|le et ·ter|rīs ‖ iac|tā·tu·s e|t al·tō
–∪∪ – – – – – – –∪∪ – –

vī·su·pe|rum ‖ sae|vae·me·mo|rem·lū|nō·ni·s o|b ī·ram
–∪∪ – – –∪∪ – – –∪∪ – –

PRODUCT ROADMAP

Product Roadmap

EXPLORING

POETIC ANALYSIS
Reviewed Latin Poetry reading rules & scansion procedures with team.

USER STORIES
Determined the end users.

CASE STORIES
Broke down process.

DATA
XML and plaintext excerpts from the *Aeneid*

DEVELOPING

PARSER
Broke down text/file into smaller parts.

SCANSION
Marks metrical pattern of poem

TESTING

TEST PARSER

TEST SCANSION

HIGHLIGHTS

Challenges

- **Custom Solutions**: Existing Python libraries didn’t fully meet our needs, requiring us to overcome challenges in building custom functions from scratch.
- **Time Constraints**: Limited time prevented us from implementing all envisioned features, including function to export metrical analysis as standalone file and user experience (ux design).
- **Skill Diversity**: Varied levels of Python experience within team made the project challenging for some, but collaboration & perseverance helped us succeed.

Next steps

1. Complete Envisioned Features

2. Enhance Accessibility

3. Submit to Conference

Thank You!

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