MUSE4Music

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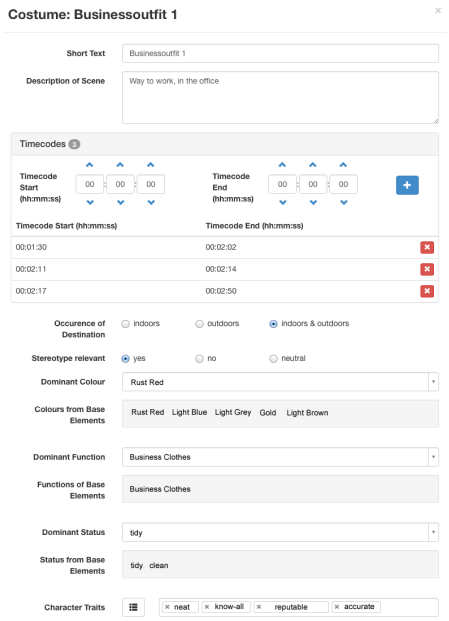
Agenda

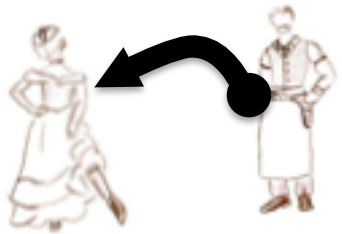
I. The Methodological Problem
II. The Idea: Expression Types in Music
III. The Implementation: MUSE4Music
IV. Conclusion

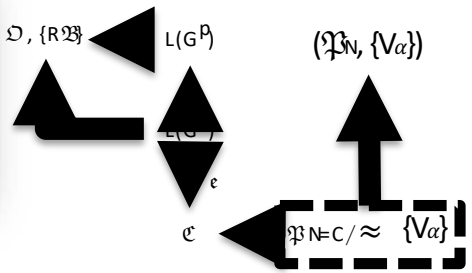
The Implementation: MUSE4Music

- Current State -

The MUSE Method







Observation → Data Capturing → Data Analysis → Formalization

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Defining “Digital Humanities”

“Digital humanities is a **diverse** and **still emerging** field that encompasses the practice of humanities research in and through **information technology**, and the exploration of how the **humanities** may evolve through their engagement with technology, media, and computational methods.”

(Digital Humanities Quarterly*)

*http://www.digitalhumanities.org/dhq/about/about.html

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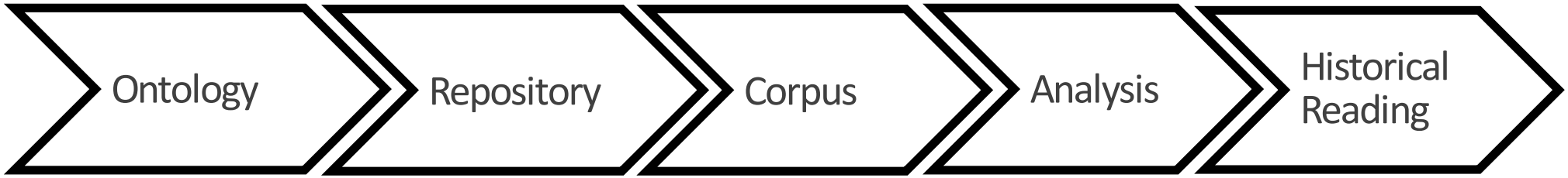
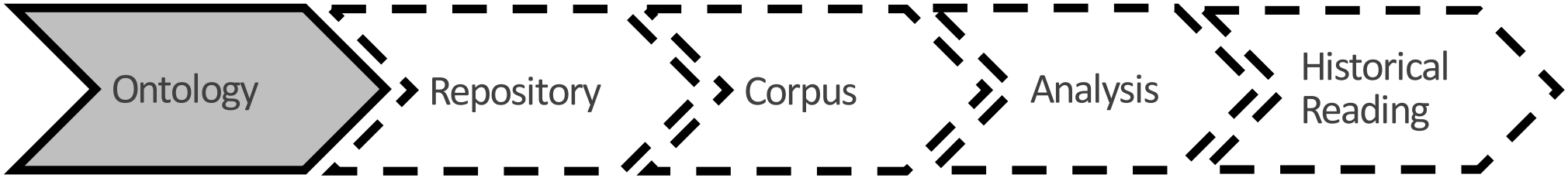

Ontology
Repository
Corpus
Analysis
Historical Reading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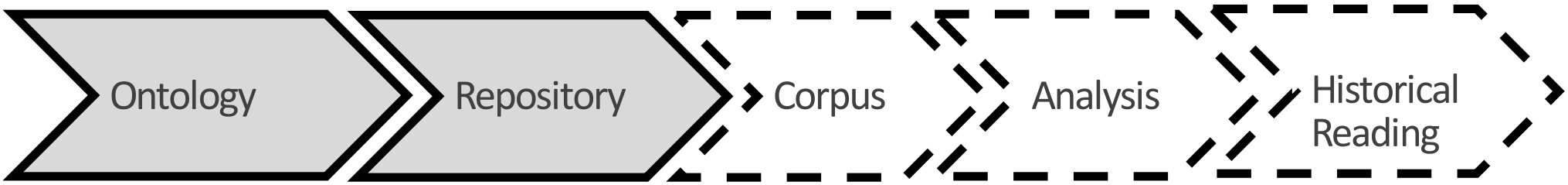
Reading

Taxonomies for MUSE4Music

Taxonomies for MUSE4Music - Instrument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MUSE4Music – Home
Personen
Werke
Taxonomien
Benutzer

MUSE4Music – Personen
Personen
Personen
+ Neu
NAME
GESCHLECHT
LEBENSZEIT
Beethoven
male
na – na
Mendelssohn
male
03.02.1809 * – 04.11.1847 †
zwie
male
na – na
Mendelssohn
Name
Mendelssohn
Geschlecht
male
Vollständiger Name
Felix Mendelssohn
Geburtstag
03.02.1809
Todestag
04.11.1847
Nationalität
Save changes

MUSE4Music – Werk: Symphonie 5 (Reformat…

Werke > "Symphonie 5 (Reformation)" >

Symphonie 5 (Reformation):

Name: Symphonie 5 (Reformation)

Komponist: Mendelssohn ✖ suche person

Name / Opus Nr.: Symphonie Nr. 5 op. 107

Anzahl Sätze: 4

Genre: Symphonie ✖ suche

Grundton: D ✖ suche

Tonalität: Dur ✖ suche

- Tonalitaet
  - | unbestimmt
  - - Dur-Moll-Tonalität
    - | **Dur**
    - | Moll
    - | wechselndes Tongeschlecht
    - | changierendes Tongeschlecht
    - | unbestimmtes Tongeschlecht
  - - modale Tonalität
    - | Kirchentonleiter
    - | Ganztonleiter
  - | Atonalität

Ort der Partitur: Leipzig

Jahr der Partitur: 1877

Werkausschnitte

+ Neu

STARTTAKT ▲	ENDTAKT	LÄNGE	NAME
9	18	21	Choral

MUSE4Music – Teilwerkausschnitt

Werke > "Symphonie 5 (Reformation)" > Werkausschnitte > "2" > Teilwerkausschnitte > "A" >

Teilwerkausschnitt "A":

- Label: A
- Vorkommen im Werkausschnitt: nicht anwendbar ✖ suche
- Anteil am Werkausschnitt: nicht anwendbar ✖ suche
- Instrumentierung: Kontrabass ✖ Violoncello ✖ Viola ✖ Violine ✖ Horn ✖ Pauke ✖ Trompete ✖ Posaune ✖ suche
- Verarbeitung
- Rhythmik
- Satz
  - Satzart allgemein: homophon ✖ suche
  - Satzart speziell: Choralsatz / Kantionalsatz ✖ suche
- Harmonik !
- Form !
- Dynamik

Stimmen

+ Neu

NAME ▲
Alle

MUSE4Music – Taxonomien

Taxonomien

Taxonomie Editor:

Artikulation (Baum)

- Artikulation
  - andere Artikulation
  - non legato

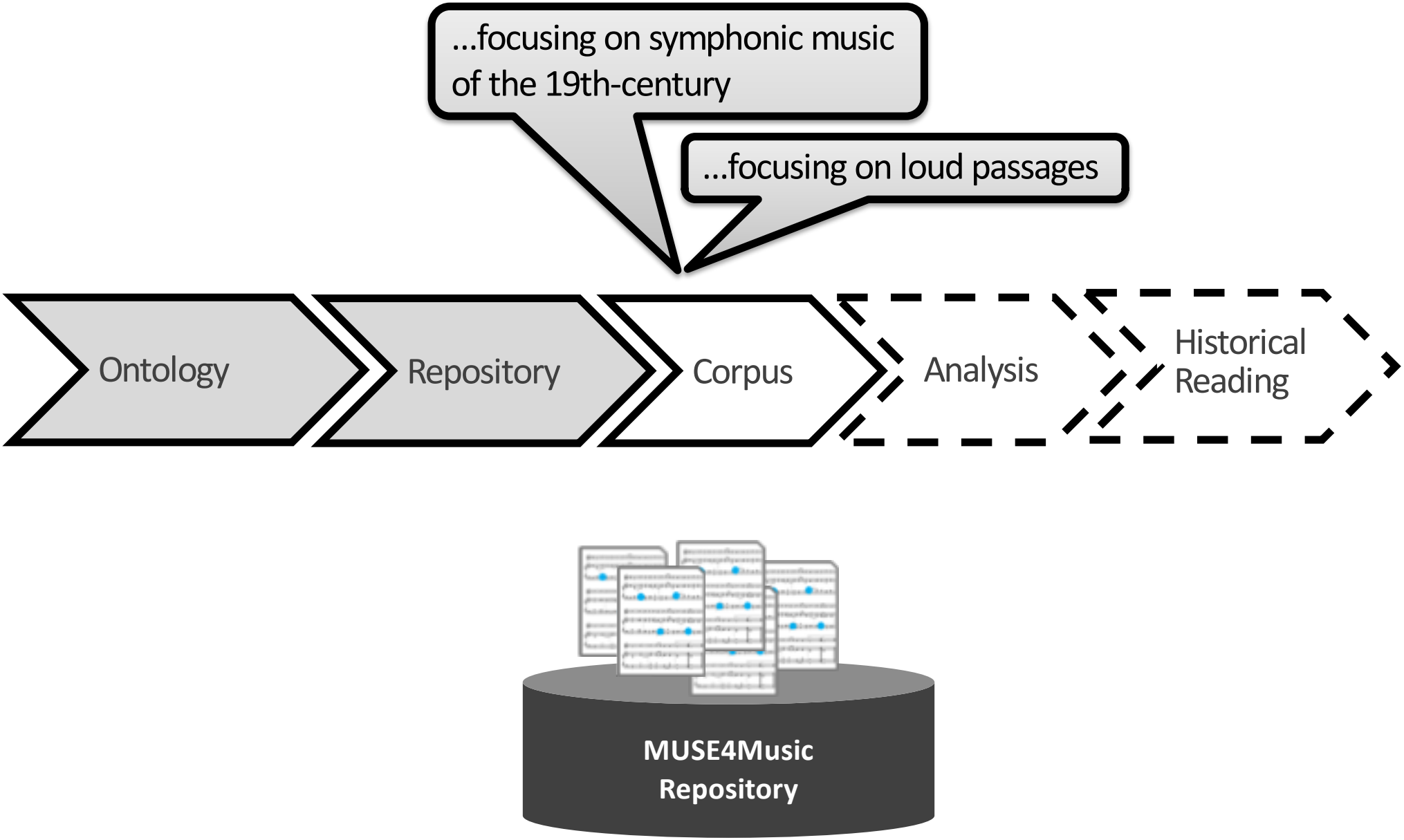
    Liegt immer dann vor, wenn keine spezielle Artikulationsanweisung geben ist.
  - legato
  - portato
  - tenuto

  - staccato

  - staccatissimo

  - marcato

    oder ▪ über der Note
  - sotto voce
- Tremolo
  - Einzelnoten
    - rhythmisch gebunden


...focusing on symphonic music of the 19th-century
...focusing on loud passages
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MUSE4Music Repository

Conclusion

Benefits and Limitations of MUSE4Music

- Benefits:
  - Controlling the historians' subjectivity
  - Allowing complex queries on huge amount of data
  - Finding new candidates for expressive types, as well as new solutions as examples for a expressive type
- Limitations:
  - the focus on loud music
  - the huge amount of potential material
  - still rather limited capacity of the automated music analysis tools, very time consuming data capturing

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The End