

# Neon: Full Manuscripts, Lyrics, and Staves

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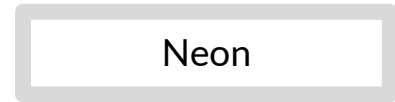
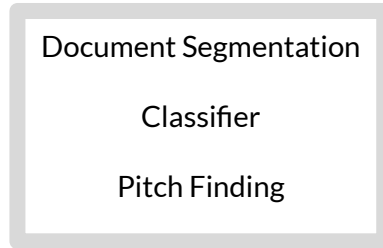
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# What is Neon?



# Neume Editor Online

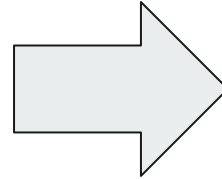
- Web-based MEI 4.0 Editor
- Square notation
- Correction of OMR Process



# Layering of MEI and Source Image



*Verovio*



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**Where was Neon a year ago?**

7

xi.

lem. Quia. Egre dicitur do  
mi nus de sa ma ri a ad por tam  
que respicit ad o ri en tem et  
ve ni et in beth le em am bu lans su per a  
quas re demp tio nis in de. Tunc sal  
uis e rit om nis ho mo qui a ec ce  
ve ni et Et pre pa ra bi tur in mi  
se ri cor dia so li um e us et se de bit su per

Zoom

180

Glyph Opacity

100

Image Opacity

100

Display Text:  Display Info: 

Highlight - Syllable ▾

Insert ▾

Neume Grouping Clef System



Edit ▾

Select By:

Syllable

Neume

Neume Component

Staff

Undo

Redo

Delete

neume

✕

Shape: Torculus

Pitch(es): G2 A2 G2

Egre di tur do mi nus de sa ma ri a ad por tam qu res pi cit le em  
ad o ri en ten et ve ni et in beth le em am bu lans su per a quas re  
dem ptio nis u de tunc sal ce vus e rit Et nis ho mo qui a ec ce ve  
ni et Et pre pa ra bi tur in mi se ri cor di so li um e i et se de bit su  
per il lud u di cans in e qui ta te nus ter Ecce ve ni et do mi nus pa  
prin ce ps re gum ter re Be ti qui pa ti sunt oc cur re li Pa ra

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**How much has changed?**



# MEI Validation & Neon Modules

- Validate loaded MEI file
  - Provide errors, if any
- Group Neon functionality into modules by purpose and by viewer
  - Allows easier development
  - Also leads to...

Display Text: <input type="checkbox"/>	Display Text BBoxes: <input type="checkbox"/>	Display Info: <input type="checkbox"/>	Highlight - Off ▼
MEI Status: <b>VALID</b>			





Neon and



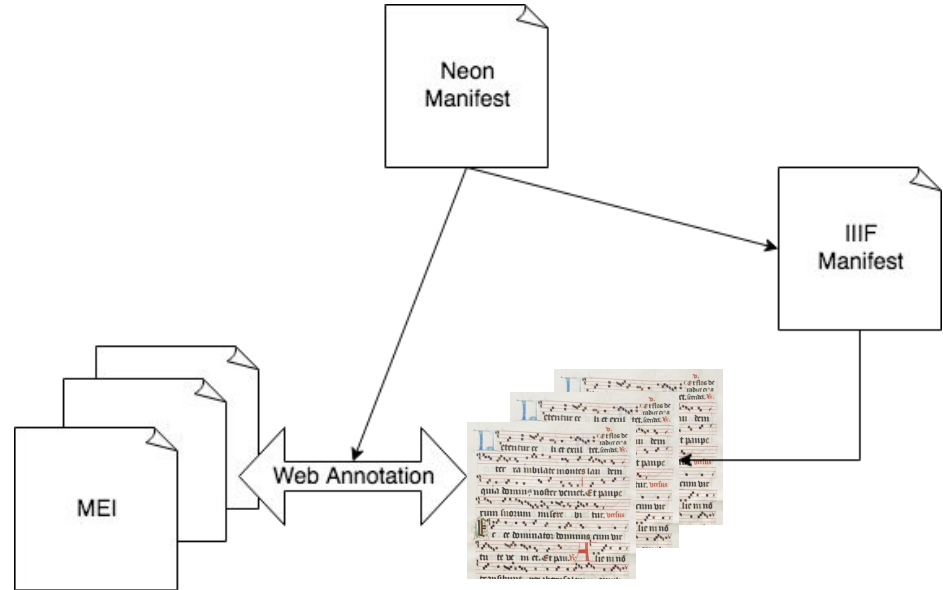


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**But how do we know what MEI file  
corresponds to what manuscript  
page?**

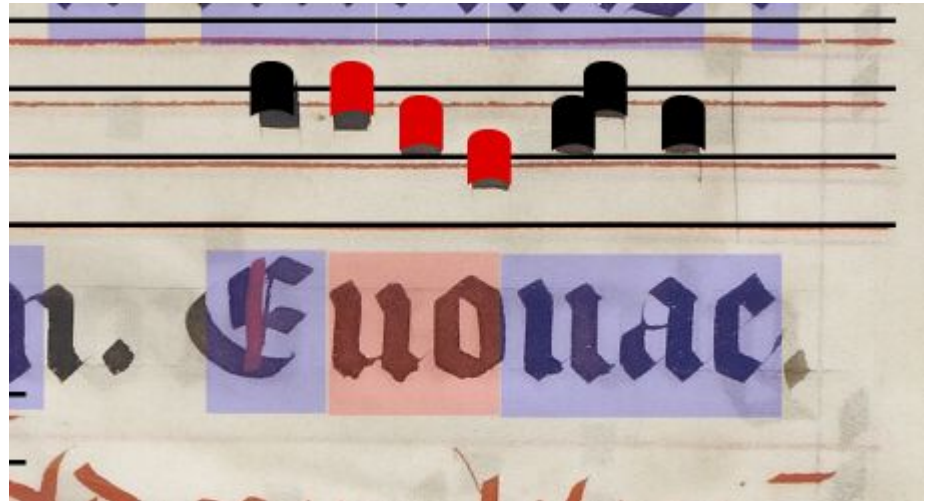
# Neon Manifest

- Defines MEI file(s), image(s)
- Provides relationship between MEI and background images.



# Text Bounding Boxes

- Represent zone associated with syllable text
- One text bounding box per syllable in all cases
- Automatically generated if data not in MEI file
- Editing features





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**We have to talk about  
hand-drawn staves.**

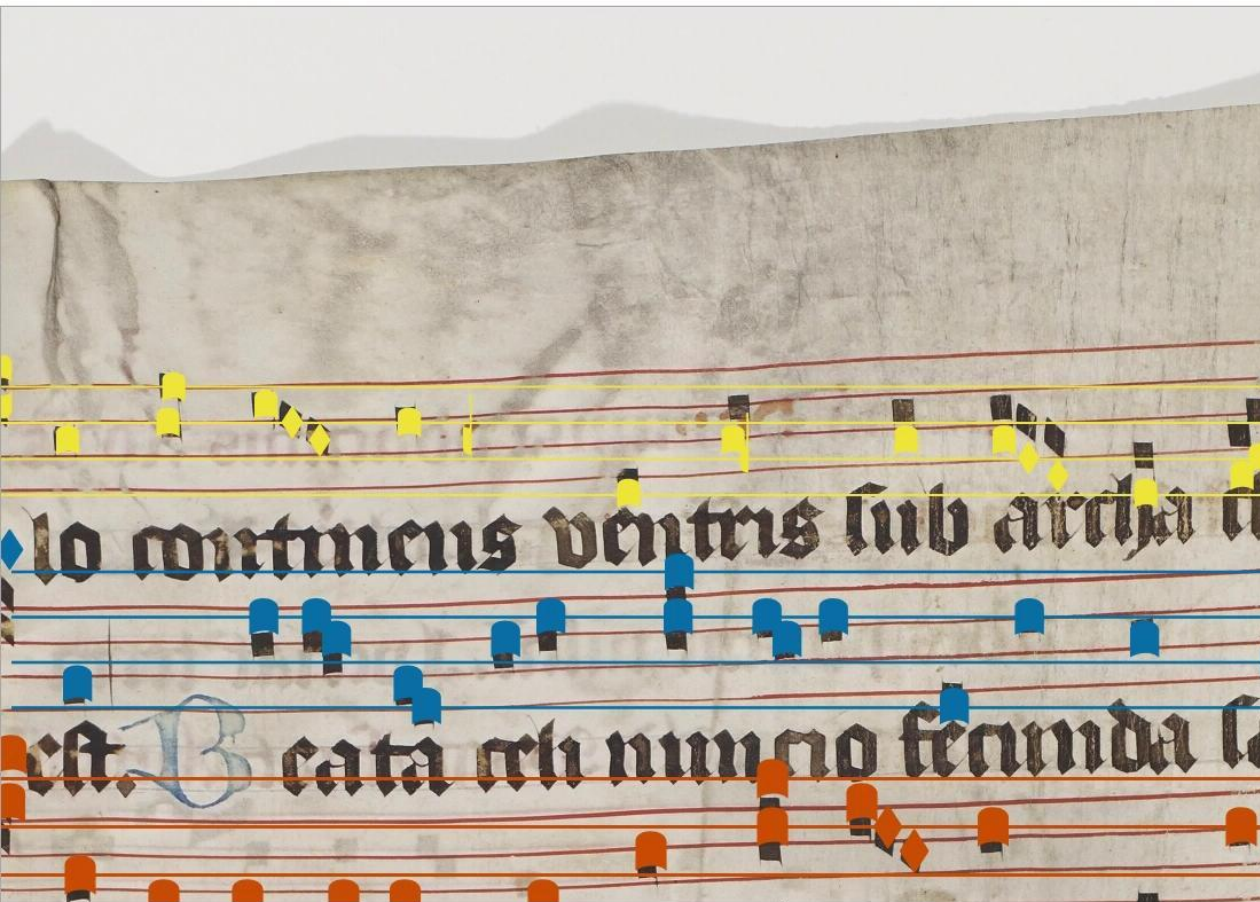
## Salzinnes, CDN-Hsmu M2149.L4



Zoom level: 5

Folio 001v

Go



Display

Glyph Opacity

100

Image Opacity

100

Display Text:  Display TextBBoxes: Display Info: 

Highlight - Staff

MEI Status: VALID

Insert

Primitive Elements Grouping System



Edit

Select By:

Syllable

Neume

Neume Component

Staff

Undo

Redo



---

**What can we do about this?**





# Changes to Implement Skew (MEI)

```
@@ -689,6 +689,12 @@
689 689         <rng:data type="nonNegativeInteger"/>
690 690         </datatype>
691 691     </attDef>
692 +     <attDef ident="skew" usage="opt">
693 +         <desc>Indicates the skew of the bounding box.</desc>
694 +         <datatype>
695 +             <rng:ref name="data.DEGREES"/>
696 +         </datatype>
697 +     </attDef>
692 698     </attList>
693 699 </classSpec>
694 700 <classSpec ident="att.cue" module="MEI.shared" type="atts">
```



# What Comes Next?

- User testing
  - What works? What doesn't? What are we missing?
  - Please try it:

<https://ddmal.music.mcgill.ca/Neon/>



# Thank You

<https://ddmal.music.mcgill.ca/Neon>



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