From holism to compositionality: memes and the evolution of segmentation, syntax, and signification in music and language

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Figure 2: The Memetic-Semiotic Nexus of an m-l Music-Language M(us)emeplex

<table>
<thead>
<tr>
<th>Memotype</th>
<th>Phenotype</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music</td>
<td>Language</td>
</tr>
<tr>
<td>Memotype</td>
<td>Phenotype</td>
</tr>
</tbody>
</table>

### i) Level-One (horizontal) and Level-Two (vertical) Semiosis

#### a) Level-Two Signifiers

- **Museme** $m$ (sound image of $m$)
- **Grapheme** $Gm$ (codes for notation of $m$)
- **Lexeme** $l$ (sound image of $l$)
- **Grapheme** $Gl$ (codes for notation of $l$)
- **Museme Product** $\hat{m}$ (sung sound of $m$)
- **Grapheme Product** $\hat{Gm}$ (notation of $m$)
- **Lexeme Product** $\hat{l}$ (spoken sound of $l$)
- **Grapheme Product** $\hat{Gl}$ (notation of $l$)

#### b) Level-Two Signifieds

- **Museme** $m$
- **Lexemeplex** $l$ (codes for $l$-mediating lexemes)
- **Interpretant Lexemeplex Products** $\hat{l}$ (spoken and written expression of $l$-mediating lexemes)

### ii) Level-Three (diagonal) Semiosis

#### a) Signifiers

- **Museme** $m$
- **Lexeme** $l$
- **Museme Product** $\hat{m}$
- **Lexeme Product** $\hat{l}$

#### b) Signifieds