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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>
</tbody>
</table>

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

#### a) Level-Two Signifiers

- **Memotype**
  - Museme \( m \) (sound image of \( m \))
  - Grapheme \( G_m \) (codes for notation of \( m \))

- **Phenotype**
  - Lexeme \( l \) (sound image of \( l \))
  - Grapheme \( G_l \) (codes for notation of \( l \))
  - Museme Product \( m \) (sung sound of \( m \))
  - Grapheme Product \( G_m \) (notation of \( m \))
  - Lexeme Product \( l \) (spoken sound of \( l \))
  - Grapheme Product \( G_l \) (notation of \( l \))

#### b) Level-Two Signifieds

- **Memotype**
  - Interpretant-Lexemeplex \( l \) (codes for \( l \)-mediating lexemes)

- **Phenotype**
  - Interpretant Lexemeplex Products \( l \) (spoken and written expression of \( l \)-mediating lexemes)

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

#### a) Signifiers

- **Memotype**
  - Museme Product \( m \) (notation of \( m \))

- **Phenotype**
  - Lexeme Product \( l \) (notation of \( l \))

#### b) Signifieds

- **Memotype**
  - Interpretant Lexemeplex \( l \) (codes for \( l \)-mediating lexemes)

- **Phenotype**
  - Interpretant Lexemeplex Products \( l \) (spoken and written expression of \( l \)-mediating lexemes)