

# Melodic Similarity

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CS 275B/MUSIC 254

A solid purple horizontal bar at the bottom of the slide.

# "Natural history" of similarity

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***Concept of similarity*** fundamental to organization of most art music

***Types of similarity*** widely variant

***Roles of similarity*** widely variant

Similarity in *art music* is **intentional**

# Contour matches (accidental)

Target:

- Chant: “Lucis Creator”



Some hits:

- Bach *WTC*



# Melodic “invisibility” factors

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- **Elaboration** of something simple
- Compound melodies (monophonic)
- Psycho-acoustic tricks (polyphonic)
- Rotating melodies
- **Ambiguous** foreground/background
- Metrical **ambiguity**

# Elaboration

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## Bach, Art of Fugue (after Wiering et al.)

Contrapunctus I, alto.



Canon per Augmentationem in Contrario Motu. soprano. EMD 5.55284; PTD 5.90789



# Classic features of melody: *symbols vs humans*

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Eerola et al, MP (2001):  
**Statistical vs perceptual**  
melodic similarity

- Material used: Finnish folk songs

Frequency distributions  
(symbols)

- Tones
- Intervals
- Durations
- Two-tone transitions

Frequency distributions  
(listeners)

- Tessitura
- Mean pitch
- Rhythmic activity
- Rhythmic variability
- Melodic predictability

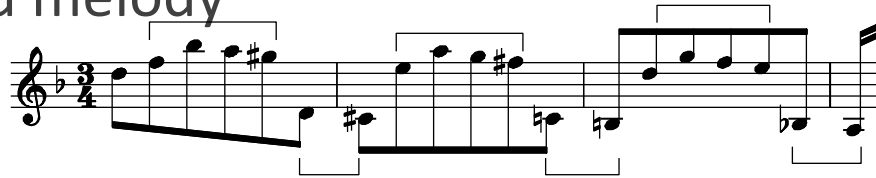
# Algorithmic vs Human Judgment (Daniel Muellenseifen)

Works by Passion Fruit

The image shows two staves of musical notation. Each staff begins with the label 'Alt' and a '5' above the first measure. The notation is in a key signature of three flats (B-flat, E-flat, A-flat) and a common time signature (C). The first staff contains a sequence of notes: G4, A4, B-flat4, C5, D5, E5, F5, G5, A5, B-flat5, C6, D6, E6, F6, G6, A6, B-flat6, C7, D7, E7, F7, G7, A7, B-flat7, C8, D8, E8, F8, G8, A8, B-flat8, C9, D9, E9, F9, G9, A9, B-flat9, C10, D10, E10, F10, G10, A10, B-flat10, C11, D11, E11, F11, G11, A11, B-flat11, C12, D12, E12, F12, G12, A12, B-flat12, C13, D13, E13, F13, G13, A13, B-flat13, C14, D14, E14, F14, G14, A14, B-flat14, C15, D15, E15, F15, G15, A15, B-flat15, C16, D16, E16, F16, G16, A16, B-flat16, C17, D17, E17, F17, G17, A17, B-flat17, C18, D18, E18, F18, G18, A18, B-flat18, C19, D19, E19, F19, G19, A19, B-flat19, C20, D20, E20, F20, G20, A20, B-flat20, C21, D21, E21, F21, G21, A21, B-flat21, C22, D22, E22, F22, G22, A22, B-flat22, C23, D23, E23, F23, G23, A23, B-flat23, C24, D24, E24, F24, G24, A24, B-flat24, C25, D25, E25, F25, G25, A25, B-flat25, C26, D26, E26, F26, G26, A26, B-flat26, C27, D27, E27, F27, G27, A27, B-flat27, C28, D28, E28, F28, G28, A28, B-flat28, C29, D29, 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C316, D316, E316, F316, G316, A316, B-flat316, C317, D317, E317, F317, G317, A317, B-flat317, C318, D318, E318, F318, G318, A318, B-flat318, C319, D319, E319, F319, G319, A319, B-flat319, C320, D320, E320, F320, G320, A320, B-flat320, C321, D321, E321, F321, G321, A321, B-flat321, C322, D322, E322, F322, G322, A322, B-flat322, C323, D323, E323, F323, G323, A323, B-flat323, C324, D324, E324, F324, G324, A324, B-flat324, C325, D325, E325, F325, G325, A325, B-flat325, C326, D326, E326, F326, G326, A326, B-flat326, C327, D327, E327, F327, G327, A327, B-flat327, C328, D328, E328, F328, G328, A328, B-flat328, C329, D329, E329, F329, G329, A329, B-flat329, C330, D330, E330, F330, G330, A330, B-flat330, C331, D331, E331, F331, G331, A331, B-flat331, C332, D332, E332, F332, G332, A332, B-flat332, C333, D333, E333, F333, G333, A333, B-flat333, C334, D334, E334, F334, G334, A334, B-flat334, C335, D335, E335, F335, G335, A335, B-flat335, C336, D336, E336, F336, G336, A336, B-flat336, C337, D337, E337, F337, G337, A337, B-flat337, C338, D338, E338, F338, G338, A338, B-flat338, C339, D339, E339, F339, G339, A339, B-flat339, C340, D340, E340, F340, G340, A340, B-flat340, C341, D341, E341, F341, G341, A341, B-flat341, C342, D342, E342, F342, G342, A342, B-flat342, C343, D343, E343, F343, G343, A343, B-flat343, C344, D344, E344, F344, G344, A344, B-flat344, C345, D345, E345, F345, G345, A345, B-flat345, C346, D346, E346, F346, G346, A346, B-flat346, C347, D347, E347, F347, G347, A347, B-flat347, C348, D348, E348, F348, G348, A348, B-flat348, C349, D349, E349, F349, G349, A349, B-flat349, C350, D350, E350, F350, G350, A350, B-flat350, C351, D351, E351, F351, G351, A351, B-flat351, C352, D352, E352, F352, G352, A352, B-flat352, C353, D353, E353, F353, G353, A353, B-flat353, C354, D354, E354, F354, G354, A354, B-flat354, C355, D355, E355, F355, G355, A355, B-flat355, C356, D356, E356, F356, G356, A356, B-flat356, C357, D357, E357, F357, G357, A357, B-flat357, C358, D358, E358, F358, G358, A358, B-flat358, C359, D359, E359, F359, G359, A359, B-flat359, C360, D360, E360, F360, G360, A360, B-flat360, C361, D361, E361, F361, G361, A361, B-flat361, C362, D362, E

# Composers' perceptual tricks

## Compound melody



One voice that we hear as two

## Distributed melody

Violin I

Violin II

Musical notation for a distributed melody in 3/4 time, key of D major. It features three staves: Violin I, Violin II, and a third staff (likely Violin II or Viola). The melody is distributed across these staves. The first staff (Violin I) has notes D4, E4, F#4, G4, A4, B4, C5, B4, A4, G4, F#4, E4, D4. The second staff (Violin II) has notes D4, E4, F#4, G4, A4, B4, C5, B4, A4, G4, F#4, E4, D4. The third staff has notes D4, E4, F#4, G4, A4, B4, C5, B4, A4, G4, F#4, E4, D4. Brackets connect the notes across the staves, showing that the melody is distributed across multiple voices.

Two voices that we hear as one





Perceptual tricks:

# Ambiguous foreground/background

A musical score snippet in G major, 4/4 time. The right hand plays a melodic line with eighth notes, and the left hand plays a bass line with quarter notes. A single eighth note in the right hand is circled in purple. The score includes dynamic markings: *cresc.* and *p*.

A musical score snippet in G major, 4/4 time. The right hand plays a melodic line with eighth notes, and the left hand plays a bass line with quarter notes. A group of notes in the right hand is circled in purple. The score includes a dynamic marking: *p*.

Schubert

# Perceptual tricks: Metrical ambiguity

A single melodic line in 6/4 time, key of D major. The notes are D4, E4, F#4, G4, A4, B4, C5, D5, E5, F#5, G5, A5, B5, C6, D6. The final note (D6) is marked with a cross (x).

Ratner

*Col intimissimo sentimento ma senza troppo marcare la Melodia*

Piano accompaniment in 6/4 time, key of D major. The right hand features a melodic line with a piano (pp) dynamic marking. The left hand provides a steady accompaniment. The final note of the right hand is marked with a cross (x).

Brahms

A single melodic line in 6/4 time, key of D major. The notes are D4, E4, F#4, G4, A4, B4, C5, D5, E5, F#5, G5, A5, B5, C6, D6. The final note (D6) is marked with a cross (x).

Piano accompaniment in 6/4 time, key of D major. The right hand features a complex rhythmic pattern with a piano (pp) dynamic marking. The left hand provides a steady accompaniment. The final note of the right hand is marked with a cross (x).

# A similarity study: The Ballo di Mantova



Fug-gi fug-gi fug - gi da que - sto cie - lo, aspr' e du - ro, spie-ta - to ge - lo



Prima Parte

