

Mapping Melodic Successions in Renaissance Music

Josquin's Four-Voice Motets

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Title

Agnus Dei

Composer Name

Josquin Des Prez

Min Date

YYYY

Max Date

YYYY

Tags

motet

Voice Count

4

Genres

Genre 1

Instruments

Lute

Languages

English OR French

Sources

Werner

Locations

France OR Paris

Religious nature

Any kind

Voice types

Any kind

Result types

Any type

File types











Any files

Sort results by

Default (By Type)

Search

Results 59

	Absalon, fili mi	
Composer: Josquin Des Prez Date: 1521 Tags: motet,uncertain attribution		
	Alleluia: Laudate Dominum	
Composer: Josquin Des Prez Date: 1521 Tags: motet,uncertain attribution		
	Alma redemptoris mater	
Composer: Josquin Des Prez Date: 1521 Tags: motet		
	Alma redemptoris mater	
Composer: Josquin Des Prez Date: 1521 Tags: motet		
	Ave Maria... benedicta tu	
Composer: Josquin Des Prez Date: 1521 Tags: motet,conflicting attribution		

Filter Your Search

Composer

☐ **Josquin Des Prez (59)**

Result Type

☐ **Piece (59)**

Tags







- ☐ **cantus firmus (1)**
- ☐ **vocal (2)**
- ☐ **conflicting attribution (2)**
- ☐ **uncertain attribution (25)**
- ☐ **paraphrase (1)**
- ☐ **motet (59)**

Number of Voices

☐ **4 (59)**

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musicus's Collections

	4 Voice Project Created by Reiner Krämer on July 22, 2015, 12:03 a.m.	4 Pieces, 4 Movements
	Four-Voice-Project-Collection-1 Created by Reiner Krämer on Sept. 8, 2015, 7:19 p.m.	4 Pieces, 4 Movements
	Josquin - Four Voice Motets - Confirmed Attribution Created by Reiner Krämer on Sept. 21, 2015, 2:18 p.m. A collection of Joaquin's four voice motets of confirmed attribution (may include duplicate).	32 Pieces, 0 Movements
	Josquin - Four Voice Motets - Conflicting Attribution Created by Reiner Krämer on Sept. 21, 2015, 2:04 p.m. Set of alleged Joaquin motets with conflicting attribution.	2 Pieces, 0 Movements
	Josquin - Four Voice Motets - Uncertain Attribution Created by Reiner Krämer on Sept. 21, 2015, 2:11 p.m. This collection of Josquin's four voice motets consists of motets of uncertain attribution.	25 Pieces, 0 Movements
	Lassus Duos Created by Reiner Krämer on Sept. 18, 2015, 6:23 p.m.	12 Pieces, 0 Movements

Josquin - Four Voice Motets - Confirmed Attribution 32 Pieces, 0

Movements

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Created by Reiner Krämer on 21 September 2015, 2:18 p.m.

Last updated 21 September 2015, 2:18 p.m.

A collection of Josquin's four voice motets of confirmed attribution (may include duplicate).

Pieces (32)

Add	Title	Composer	▼ Movements	Date
+	Alma redemptoris mater	Josquin Des Prez	No movements	1521
+	Alma redemptoris mater	Josquin Des Prez	No movements	1521
+	Ave Maria virgo serena	Josquin Des Prez	No movements	1485
+	Ave Maria... virgo serena	Josquin Des Prez	No movements	1521
+	Ave mundi spes, Maria	Josquin Des Prez	No movements	1521
+	Domine, ne in furore	Josquin Des Prez	No movements	1521
+	Dulces exuviae	Josquin Des Prez	No movements	1521
+	Ecce tu pulchra es	Josquin Des Prez	No movements	1521
+	Factum est autem	Josquin Des Prez	No movements	1521
+	Fama malum	Josquin Des Prez	No movements	1521

Ave Maria... virgo serena

Piece - Created by Natasha on 05 July 2012. Last updated on 01 September 2015.

Composer	Josquin Des Prez	Place of Origin	Unknown
Date of Composition	1450-1521	Language	Latin
Number of voices	4	Source	JRP
Genres	Unknown	Religiosity	Sacred
Instrument Voice	SATB	Voice Type	Unknown
Collections	Josquin Research Project (JRP)	Tags	motet

New Josquin Edition (NJE) 23.6

Available Attachments

Title	Source
Ave-Maria...-virgo-serena_Josquin-Des-Prez_file1.krn	None

Ave Maria...virgo serena

Josquin des Prez
NJE 23.6

Superius

Altus

Tenor

Bassus

7

13

Mapping Melodic Successions in Renaissance Music

- Josquin's Four-Voice Motets:
 - ELVIS database search summary
 - There are 59 four-voice motets
 - 32 securely attributed (29 with duplicates removed)
 - 27 not securely attributed
 - 25 uncertain attribution
 - 2 conflicting attribution

Mapping Melodic Successions in Renaissance Music

Melodic Successions in Josquin's Four-Voice Motets

Melodic Successions in Josquin's Four-Voice Motets

- What are Melodic Successions?
 - The movement from one note to another
 - Governed by certain contrapuntal principals
 - e.g.: Treatment and symbiotic relationship of consonance and dissonance, expressed through successive horizontal pitch classes

Melodic Successions in Josquin's Four-Voice Motets

- The movement from one note to another can be statistically captured for each voice.
- The outcome of the statistically captured data can be stored in a State Transition Matrix.*

* Sounds familiar? Well, yes indeed: Hiller and Isaacson used this method to compose the fourth movement of the *Illiad Suite* (String Quartet No. 4) in 1957, by which a STM was used to generate musical material through a series of Markov chains. STMs are also used in ANNs.


- Our advantage: more computational power, the ability to track more symbolic music data.

Melodic Successions in Josquin's Four-Voice Motets

- Generating a STM:
 - Soprano line of *Ave Maria...virgo serena* (here expressed in PCs, without durations):
 - ['Start', 7, 0, 0, 2, 4, 0, 'Rest', 'Rest', 'Rest', 0, 11, 9, 7, 9, 7, 0, 11, 9, 11, 0, 'Rest', 'Rest', 'Rest', 'Rest', 0, 0, 0, 2, 4, 0, 11, 9, 7, 5, 4, 0, 11, 9, 7, 5, 4, 'Rest', 'Rest', 0, 9, 7, 0, 2, 4, 'Rest', 4, 2, 0, 11, 0, 'Rest', 0, 0, 2, 4, 4, 5, 4, 4, 2, 4, 'Rest', 'Rest', 'Rest', 'Rest', 'Rest', 4, 4, 4, 5, 4, 2, 0, 11, 7, 9, 11, 0, 9, 11, 0, 2, 11, 0, 2, 4, 2, 4, 5, 4, 2, 0, 2, 4, 2, 0, 11, 0, 'Rest', 7, 0, 11, 0, 2, 11, 9, 7, 7, 7, 9, 7, 0, 11, 0, 'Rest', 'Rest', 'Rest', 'Rest', 2, 4, 0, 2, 11, 0, 11, 9, 7, 'Rest', 'Rest', 'Rest', 7, 0, 2, 4, 2, 4, 0, 0, 2, 11, 11, 4, 2, 0, 0, 11, 0, 'Rest', 0, 0, 0, 2, 11, 0, 11, 9, 7, 'Rest', 'Rest', 11, 11, 11, 0, 11, 9, 7, 5, 4, 'Rest', 4, 2, 0, 7, 'Rest', 'Rest', 'Rest', 'Rest', 7, 7, 7, 9, 9, 11, 11, 7, 'Rest', 7, 7, 7, 9, 9, 11, 11, 7, 7, 0, 0, 9, 9, 2, 0, 11, 9, 7, 7, 0, 0, 2, 4, 2, 0, 11, 0, 'Rest', 2, 2, 2, 4, 2, 0, 11, 11, 2, 0, 11, 9, 9, 7, 'Rest', 'Rest', 2, 2, 2, 4, 2, 0, 11, 11, 2, 0, 11, 9, 7, 'Rest', 'Rest', 'Rest', 7, 9, 11, 0, 11, 0, 2, 4, 'Rest', 'Rest', 4, 4, 2, 0, 2, 0, 11, 0, 'Rest', 'Rest', 'Rest', 'Rest', 'Rest', 0, 2, 4, 5, 4, 'Rest', 4, 4, 2, 0, 11, 0, 0, 'End']
 - Finalis Complex: PCs from Top down (SATB) = (0, 7, 0, 0)
 - OR:

Melodic Successions in Josquin's Four-Voice Motets

Ave Maria...virgo serena: Soprano

		moving to 														
moving from	PCs/SiCs	0	1	2	3	4	5	6	7	8	9	10	11	Start	End	Rest
	0	0.18	0	0.26	0	0	0	0	0.02	0	0.05	0	0.35	0	0.02	0.13
	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0.38	0	0.1	0	0.4	0	0	0	0	0	0	0.13	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0.14	0	0.4	0	0.17	0.11	0	0	0	0	0	0	0	0	0.17
	5	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	0.26	0	0	0	0	0.1	0	0.26	0	0.19	0	0	0	0	0.19
	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9	0	0	0.04	0	0	0	0	0.54	0	0.17	0	0.25	0	0	0
	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11	0.41	0	0.05	0	0.02	0	0	0.07	0	0.27	0	0.17	0	0	0
	Start	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	Rest	0.13	0	0.06	0	0.1	0	0	0.1	0	0	0	0.02	0	0	0.58

Melodic Successions in Josquin's Four-Voice Motets

Ave Maria...virgo serena: Alto

moving from	moving to															
	PCs/SiCs	0	1	2	3	4	5	6	7	8	9	10	11	Start	End	Rest
	0	0.19	0	0.2	0	0.03	0.02	0	0.12	0	0.10	0	0.22	0	0.00	0.14
	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0.50	0	0.00	0	0.31	0.03	0	0.08	0	0	0	0.06	0	0	0.03
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0.05	0	0.5	0	0.12	0.26	0	0.02	0	0.02	0	0	0	0	0.1
	5	0.03	0	0.10	0	0.52	0.03	0	0.29	0	0.03	0	0	0	0	0
	6	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	7	0.08	0	0.02	0	0.09	0.22	0.02	0.25	0	0.2	0	0.02	0	0.02	0.15
	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9	0	0	0.03	0	0.00	0.1	0	0.5	0	0.03	0.00	0.33	0	0	0
	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11	0.50	0	0.00	0	0.00	0	0	0.07	0	0.27	0	0.13	0	0	0.03
	Start	0	0	0	0	0	0	0	0.00	0	0	0	0	0	0	1.00
	Rest	0.16	0	0.02	0	0.05	0.02	0	0.23	0	0.07	0	0.00	0	0	0.45

Melodic Successions in Josquin's Four-Voice Motets

Ave Maria...virgo serena: Tenor

		moving to														
moving from	PCs/SiCs	0	1	2	3	4	5	6	7	8	9	10	11	Start	End	Rest
	0	0.23	0	0.2	0	0.02	0.03	0	0.00	0	0.02	0	0.27	0	0.02	0.18
	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0.36	0	0.16	0	0.32	0.02	0	0.05	0	0	0	0.09	0	0	0.00
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0.19	0	0.4	0	0.16	0.19	0	0.00	0	0.00	0	0	0	0	0.1
	5	0.00	0	0.22	0	0.39	0.11	0	0.28	0	0.00	0	0	0	0	0
	6	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	7	0.13	0	0.00	0	0.09	0.16	0.03	0.22	0	0.2	0	0.00	0	0.00	0.16
	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9	0	0	0.00	0	0.00	0.1	0	0.7	0	0.00	0.00	0.19	0	0	0
	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11	0.48	0	0.07	0	0.00	0	0	0.04	0	0.30	0	0.11	0	0	0.00
	Start	0	0	0	0	0	0	0	0.00	0	0	0	0	0	0	1.00
	Rest	0.20	0	0.07	0	0.04	0.00	0	0.11	0	0.00	0	0.00	0	0	0.59

Melodic Successions in Josquin's Four-Voice Motets

Ave Maria...virgo serena: Bass

moving from	moving to															
	PCs/SiCs	0	1	2	3	4	5	6	7	8	9	10	11	Start	End	Rest
	0	0.30	0	0.1	0	0.04	0.07	0	0.16	0	0.07	0	0.05	0	0.02	0.19
	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0.63	0	0.06	0	0.19	0.00	0	0.06	0	0	0	0.06	0	0	0.00
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0.15	0	0.3	0	0.00	0.44	0	0.00	0	0.04	0	0	0	0	0.1
	5	0.03	0	0.00	0	0.45	0.06	0	0.45	0	0.00	0	0	0	0	0
	6	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	7	0.15	0	0.00	0	0.12	0.19	0.06	0.17	0	0.3	0	0.00	0	0.00	0.06
	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9	0	0	0.05	0	0.05	0.2	0	0.3	0	0.09	0.05	0.27	0	0	0
	10	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	11	0.60	0	0.00	0	0.00	0	0	0.20	0	0.20	0	0.00	0	0	0.00
	Start	0	0	0	0	0	0	0	0.00	0	0	0	0	0	0	1.00
	Rest	0.21	0	0.00	0	0.00	0.00	0	0.11	0	0.00	0	0.00	0	0	0.68

Melodic Successions in Josquin's Four-Voice Motets

Ave Maria...virgo serena: All Parts

		moving to														
moving from	PCs/SiCs	0	1	2	3	4	5	6	7	8	9	10	11	Start	End	Rest
	0	0.22	0	0.2	0	0.02	0.03	0	0.07	0	0.06	0	0.23	0	0.01	0.16
	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0.43	0	0.09	0	0.32	0.01	0	0.04	0	0	0	0.09	0	0	0.01
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0.13	0	0.4	0	0.12	0.24	0	0.01	0	0.01	0	0	0	0	0.1
	5	0.02	0	0.08	0	0.51	0.06	0	0.33	0	0.01	0	0	0	0	0
	6	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	7	0.14	0	0.01	0	0.08	0.18	0.03	0.22	0	0.2	0	0.01	0	0.01	0.13
	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9	0	0	0.03	0	0.01	0.1	0	0.5	0	0.08	0.01	0.27	0	0	0
	10	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	11	0.47	0	0.04	0	0.01	0	0	0.07	0	0.27	0	0.13	0	0	0.01
	Start	0	0	0	0	0	0	0	0.25	0	0	0	0	0	0	0.75
	Rest	0.17	0	0.04	0	0.05	0.01	0	0.14	0	0.02	0	0.01	0	0	0.58

Melodic Successions in Josquin's Four-Voice Motets

Finalis Complex 0-7: Ave Maria...virgo serena

moving from	moving to															
	PCs/SiCs	0	1	2	3	4	5	6	7	8	9	10	11	Start	End	Rest
	0	0.22	0	0.2	0	0.02	0.03	0	0.07	0	0.06	0	0.23	0	0.01	0.16
	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0.43	0	0.09	0	0.32	0.01	0	0.04	0	0	0	0.09	0	0	0.01
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0.13	0	0.4	0	0.12	0.24	0	0.01	0	0.01	0	0	0	0	0.1
	5	0.02	0	0.08	0	0.51	0.06	0	0.33	0	0.01	0	0	0	0	0
	6	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	7	0.14	0	0.01	0	0.08	0.18	0.03	0.22	0	0.2	0	0.01	0	0.01	0.13
	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9	0	0	0.03	0	0.01	0.1	0	0.5	0	0.08	0.01	0.27	0	0	0
	10	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	11	0.47	0	0.04	0	0.01	0	0	0.07	0	0.27	0	0.13	0	0	0.01
	Start	0	0	0	0	0	0	0	0.25	0	0	0	0	0	0	0.75
	Rest	0.17	0	0.04	0	0.05	0.01	0	0.14	0	0.02	0	0.01	0	0	0.58

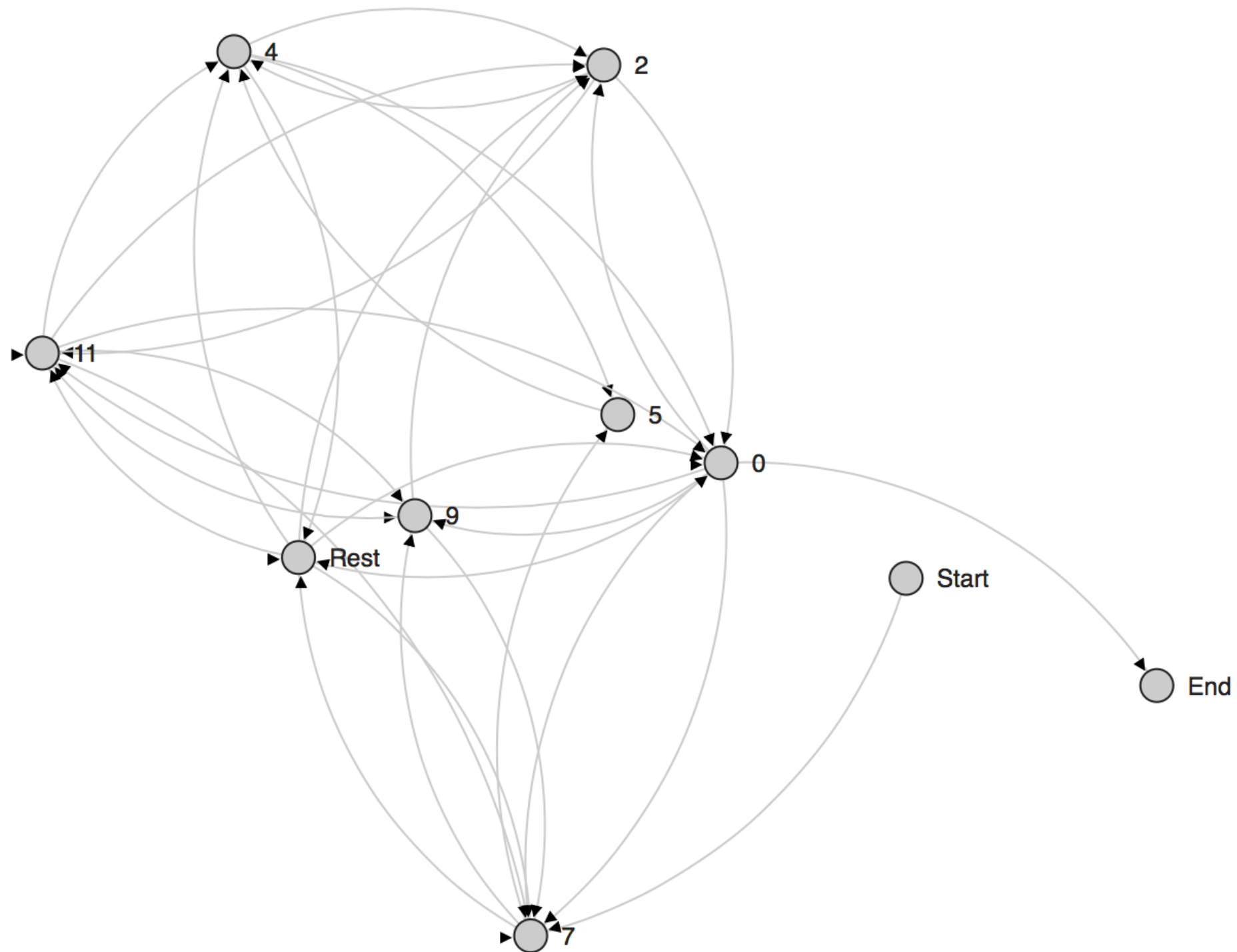
Melodic Successions in Josquin's Four-Voice Motets

- The STM is great if you are used to reading tables all day, but can a STM be visualized in a more understandable manner?
- An STM can also be represented as a STN (State Transition Network, or a directional network graph)
 - Computer scientist to suggest STNs: Donald Knuth (*The Art of Computer Programming*) realized a text based network on the characters of Victor Hugo *Les Misérables*
 - What other music theorists use STNs: Mazzola, Lewin, etc.
- Library used here to visualize STNs
 - Data Driven Document (D3.js)

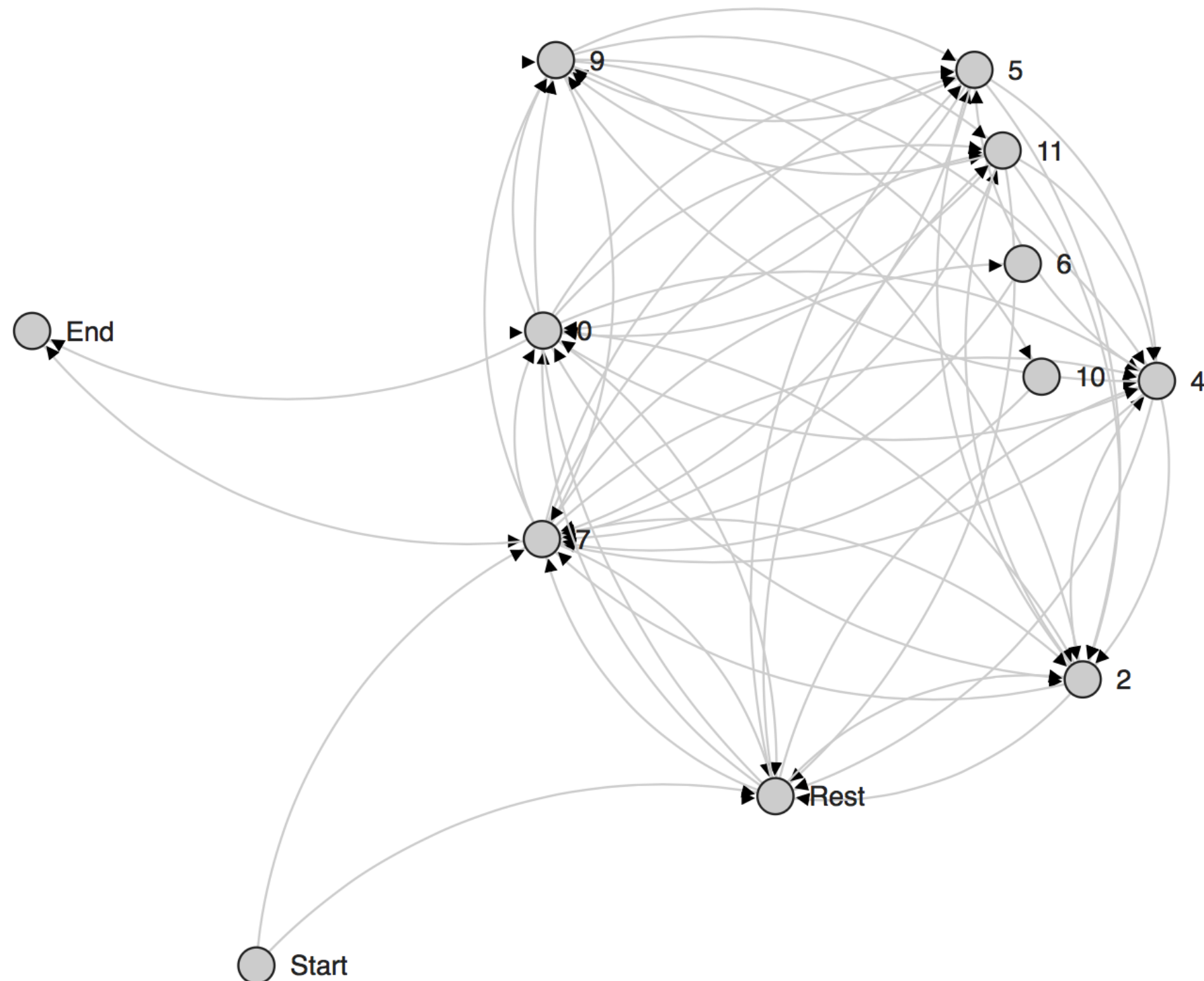
Melodic Successions in Josquin's Four-Voice Motets

- Data Driven Document Library (D3.js)
 - comes with Python interface (via NetworkX)
 - can use
 - CSV
 - JSON
 - Uses Web Browser
 - generates dynamic Networks the user can interact with
 - searchable, zoomable, movable
 - has plugins for specific Network graphing tasks
 - arrows
 - sizable nodes

Ave Maria ... virgo serena - Soprano: Melodic Successions



Josquin Four-Voice Motets with finalis complex 0-7: Melodic Successions



Melodic Successions in Josquin's Four-Voice Motets

- What is this method good for?*
 - It can be used to determine precise melodic procedures within Josquin's Four-Voice Motet writing, on a voice based foreground level.
 - The melodic procedures can be sorted according to mode, since different modes may consist of different melodic procedures.
 - The data can be used to compare Josquin's securely attributed, uncertain attributed, and conflicting attributed four-voice motets.
 - Can this method be expanded?
 - Intervallic data can be represented in STMs/STNs
 - Vertical intervallic data (or chords) can be represented in STMs/STNs
 - Contrapuntal combinations and resulting voice-leading procedures can be represented as STMs/STNs
- * Algorithmically composing melodic lines in a style similar to Josquin

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