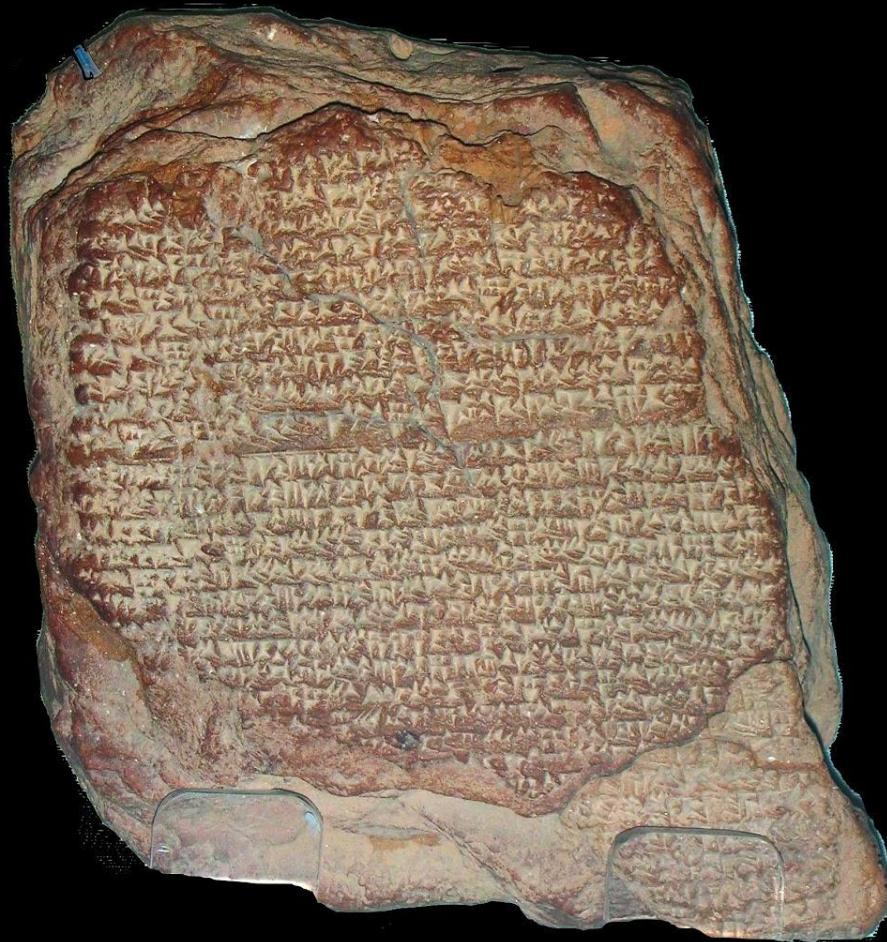




# Pastry

Douglas Creager @dcreager  
Papers We Love Boston July 26, 2018

(1990's)



**CREATIVE**

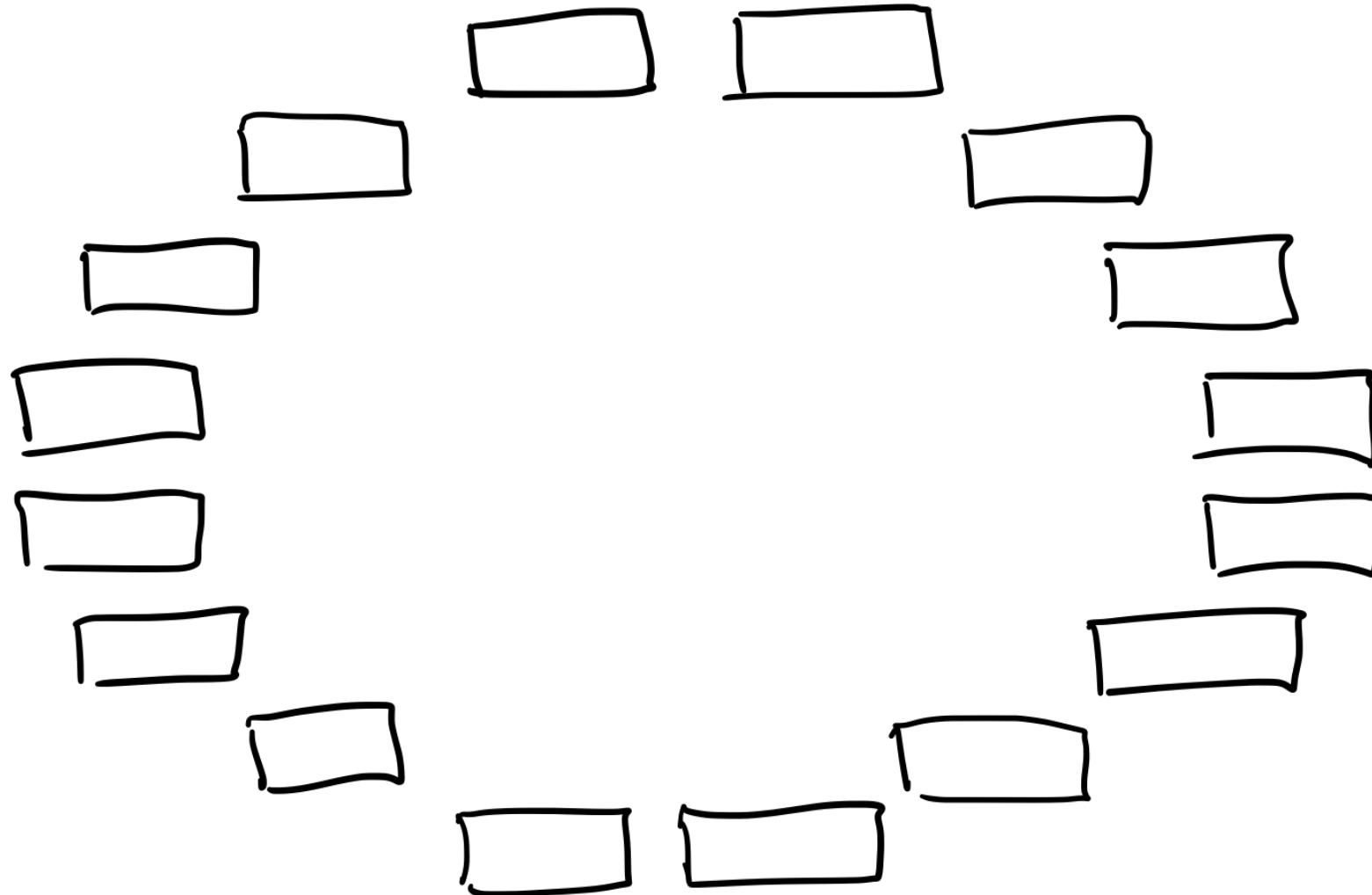
**NOMAD**  
JUKEBOX

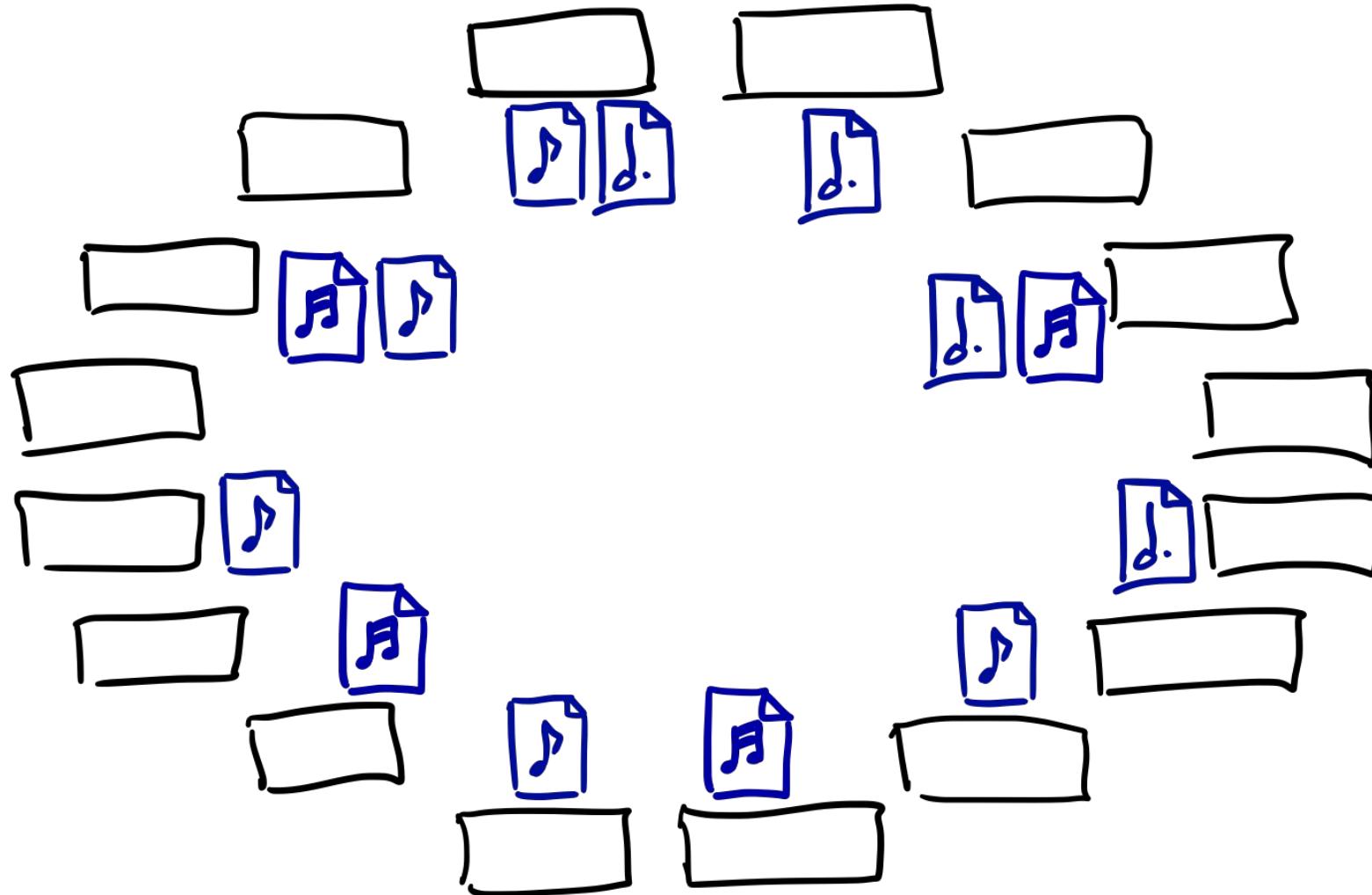
⬅ .....CURRENT TRACK..... ➡  
THINK OF YOU  
GAVIN FROOME  
UNDERGROUND HEROES  
▶ [Progress Bar]  
01 03:20 EAX 05:45

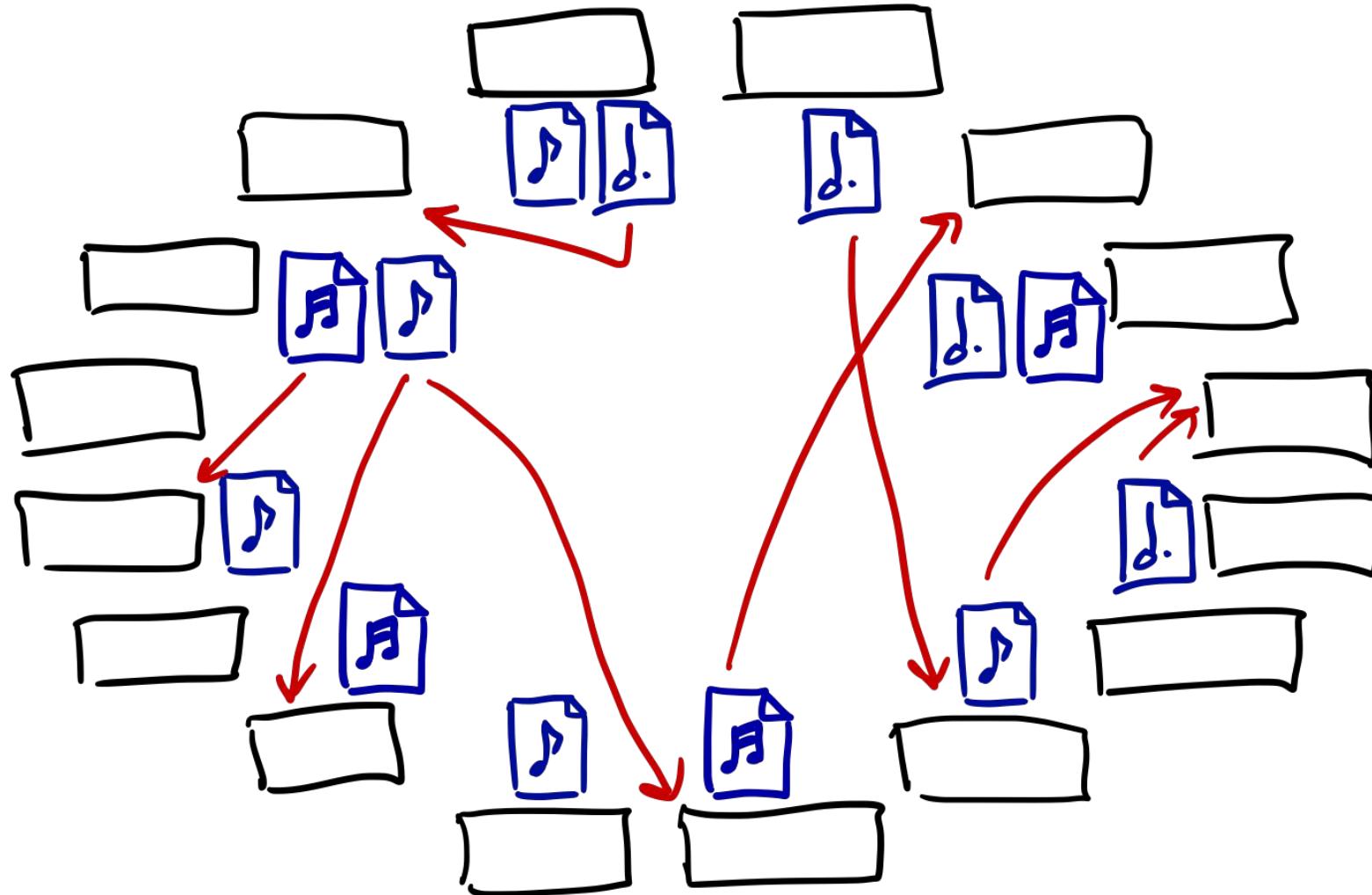
LIB

EAX



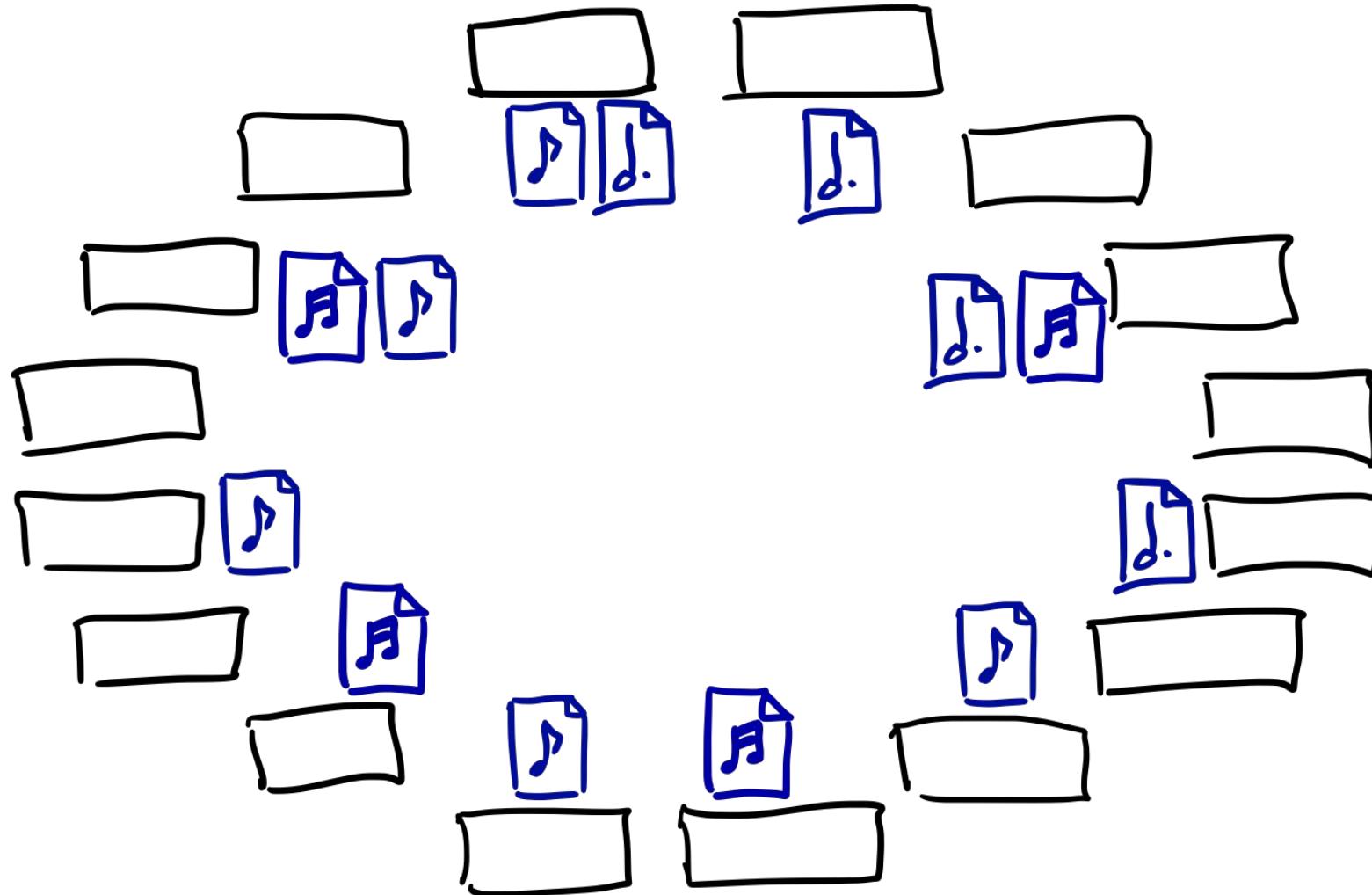


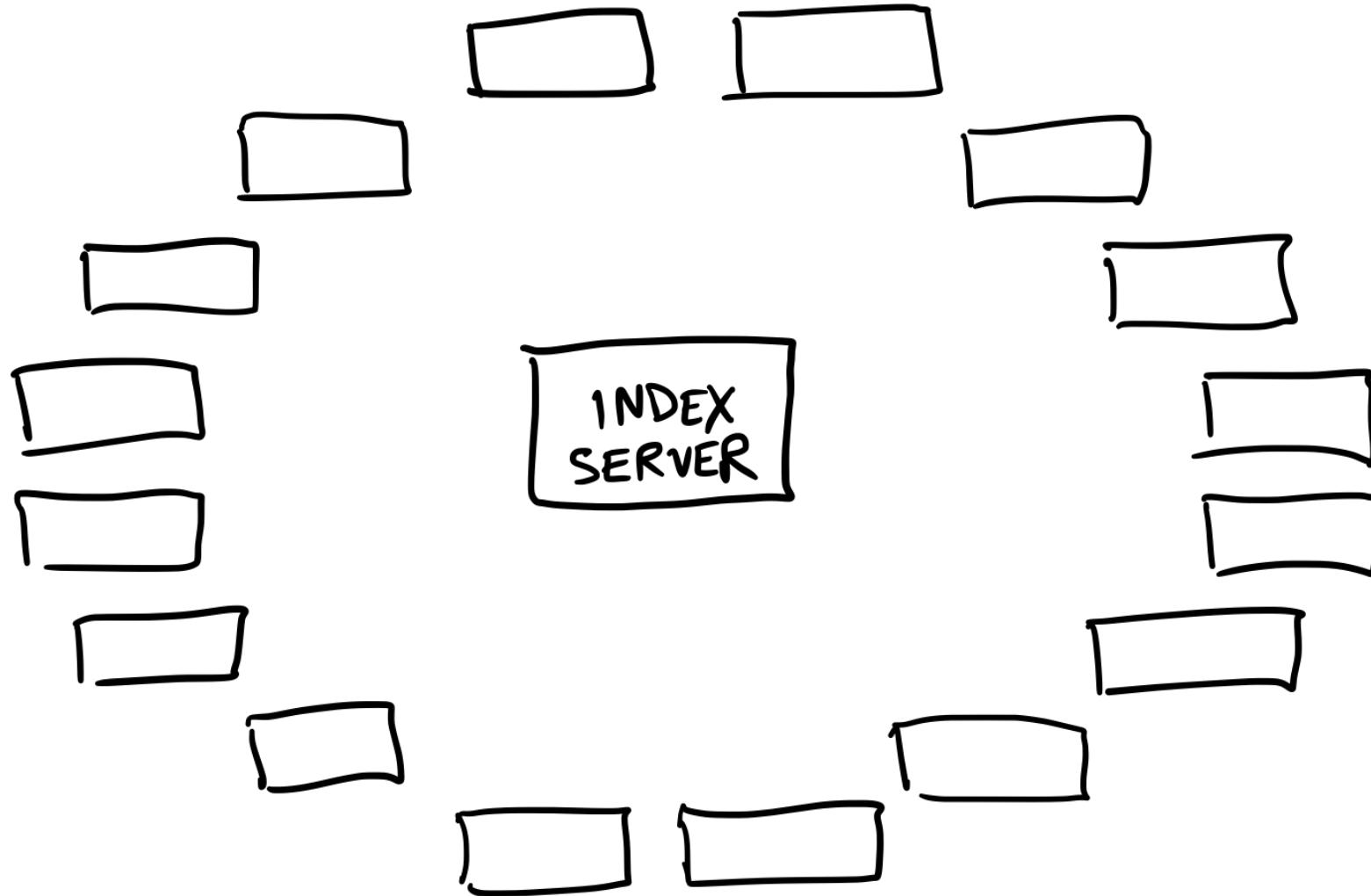




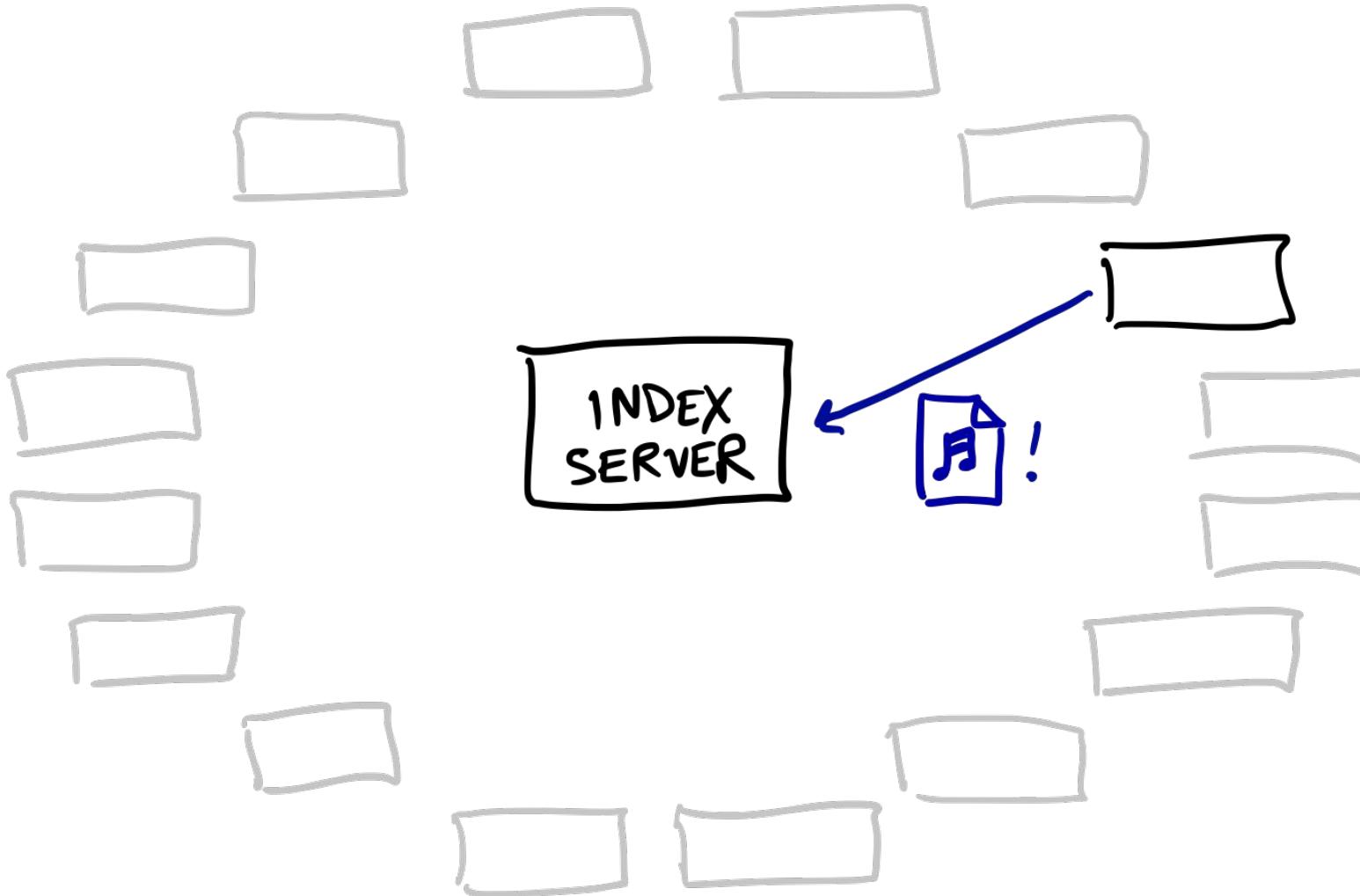
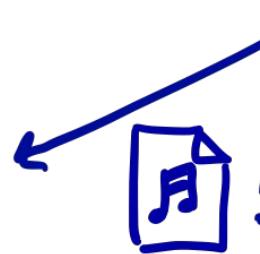


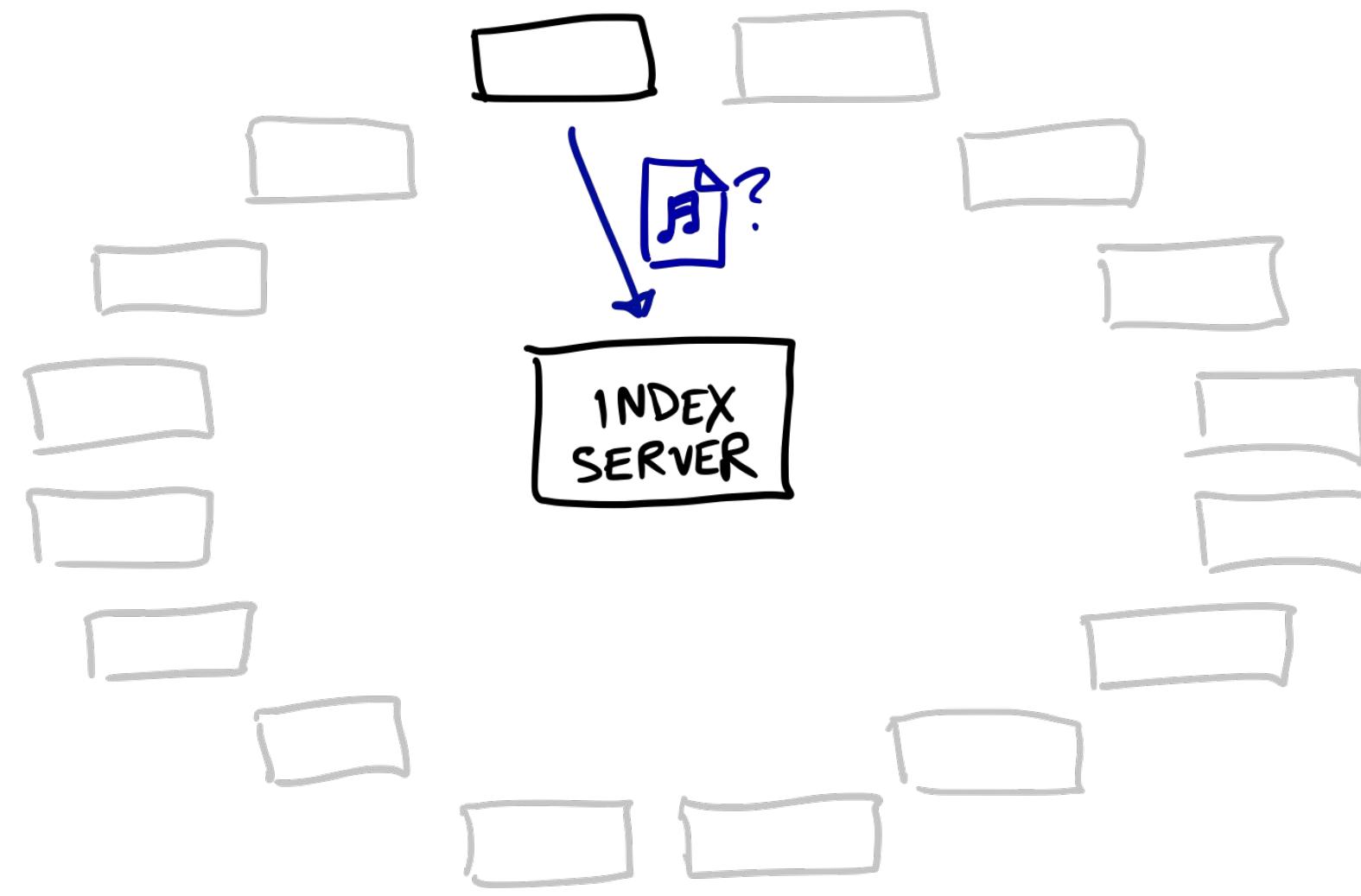
Napster





**INDEX  
SERVER**

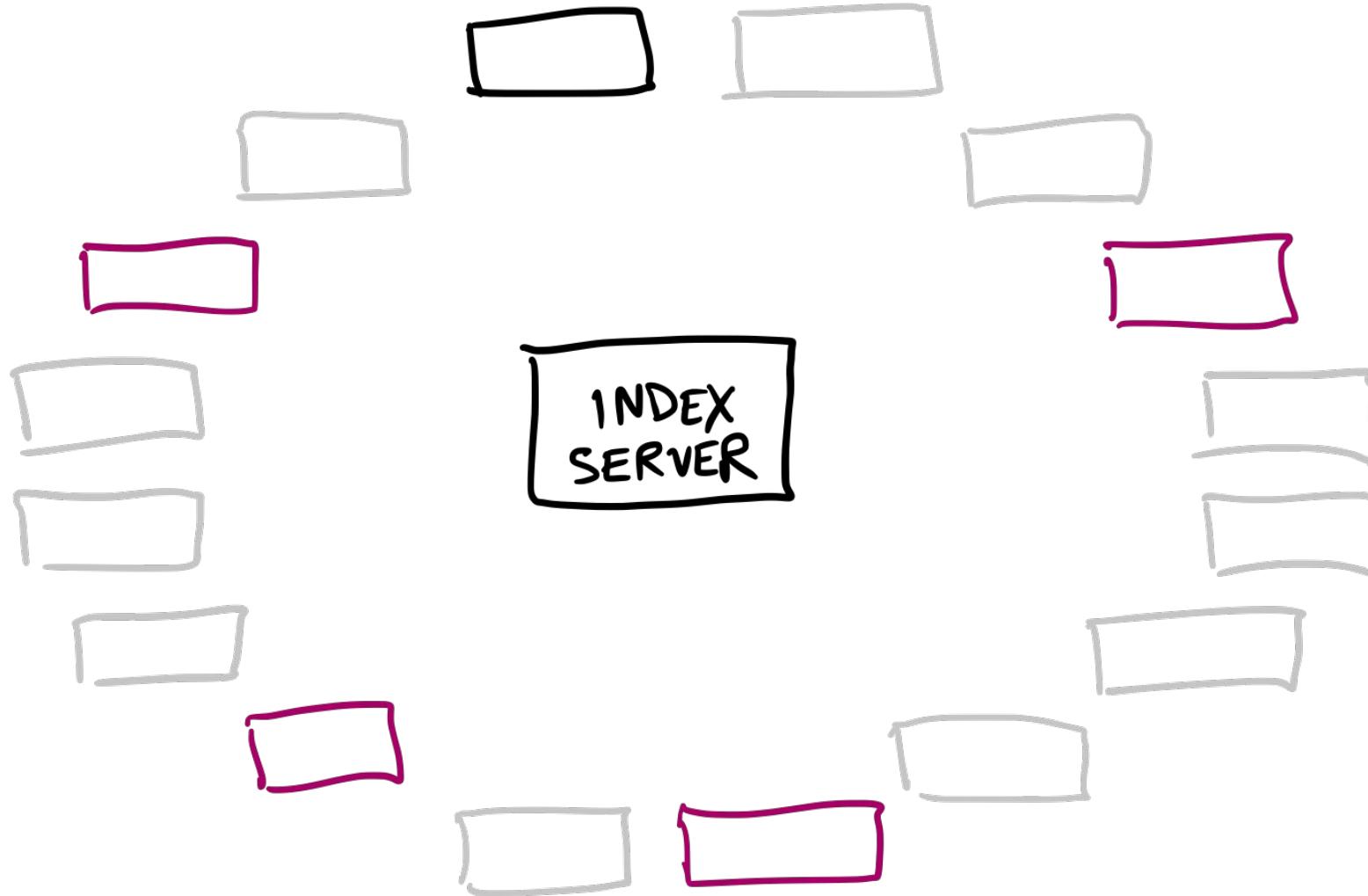


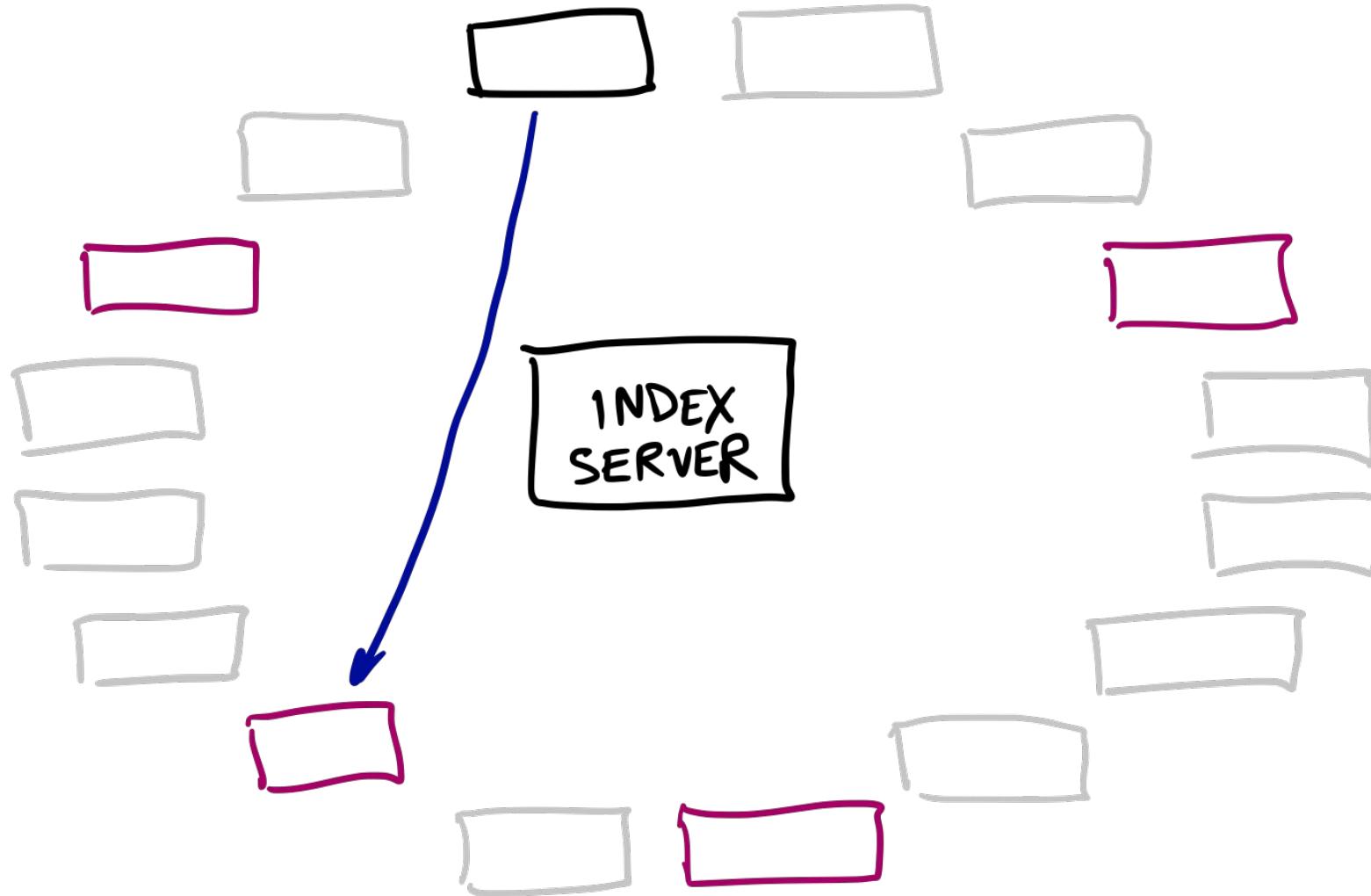


**INDEX  
SERVER**



**INDEX  
SERVER**







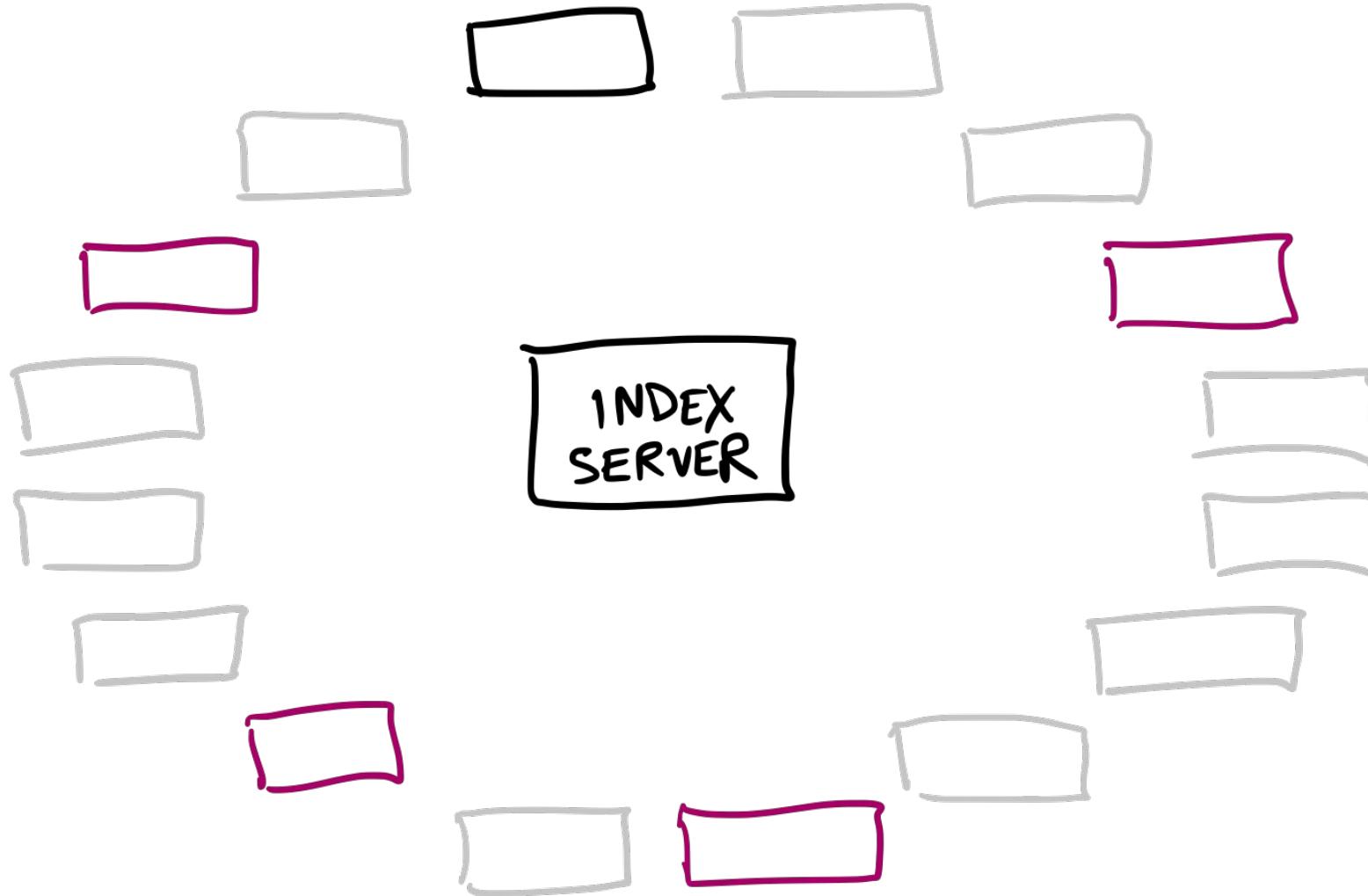
A silver station wagon is parked in a flooded area. The water covers the lower half of the car and reaches up to the bottom of the windows. Bare tree branches are in the foreground, partially obscuring the view of the car. The background shows a flooded street with trees and buildings in the distance.

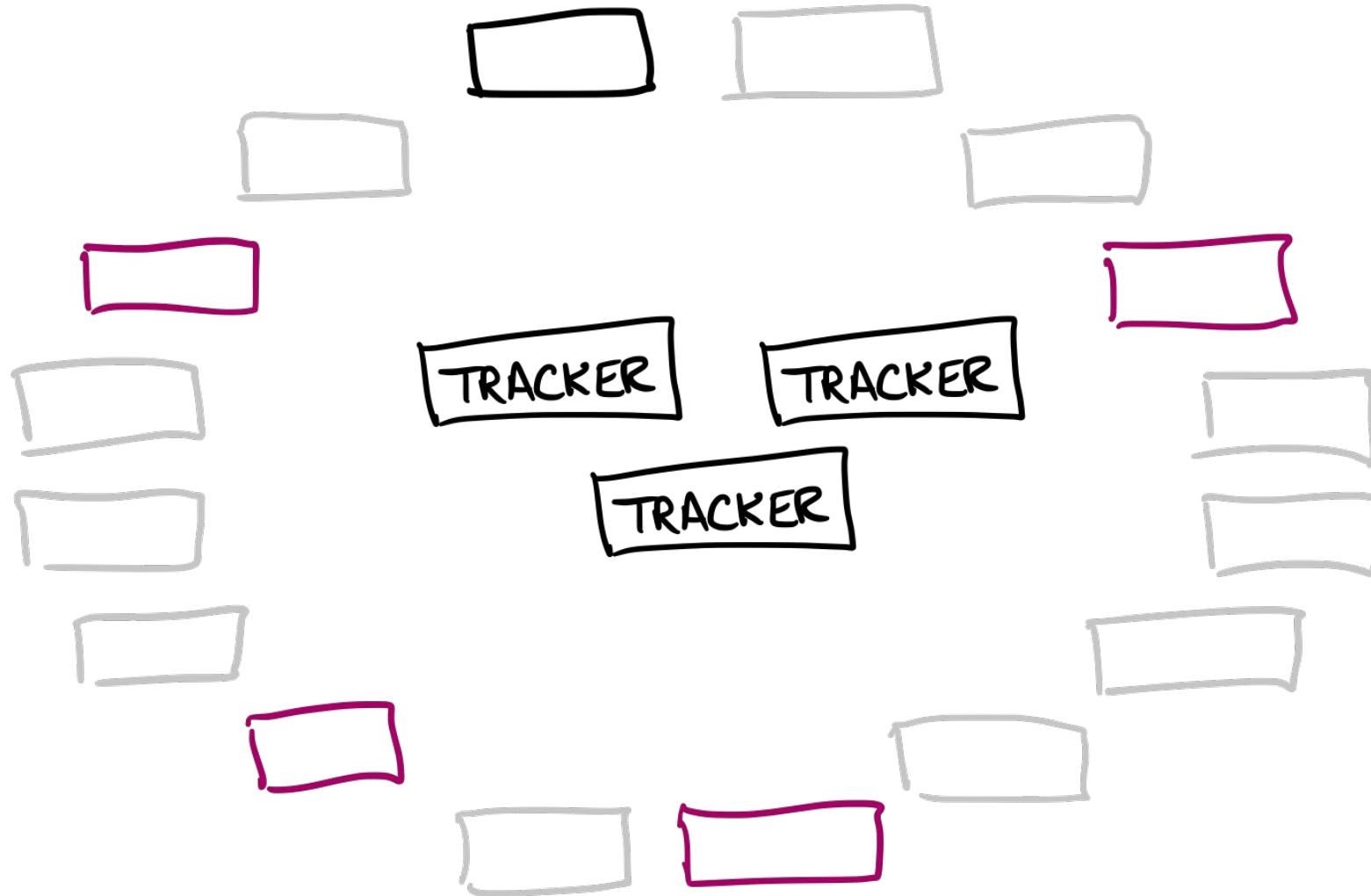
Problems?

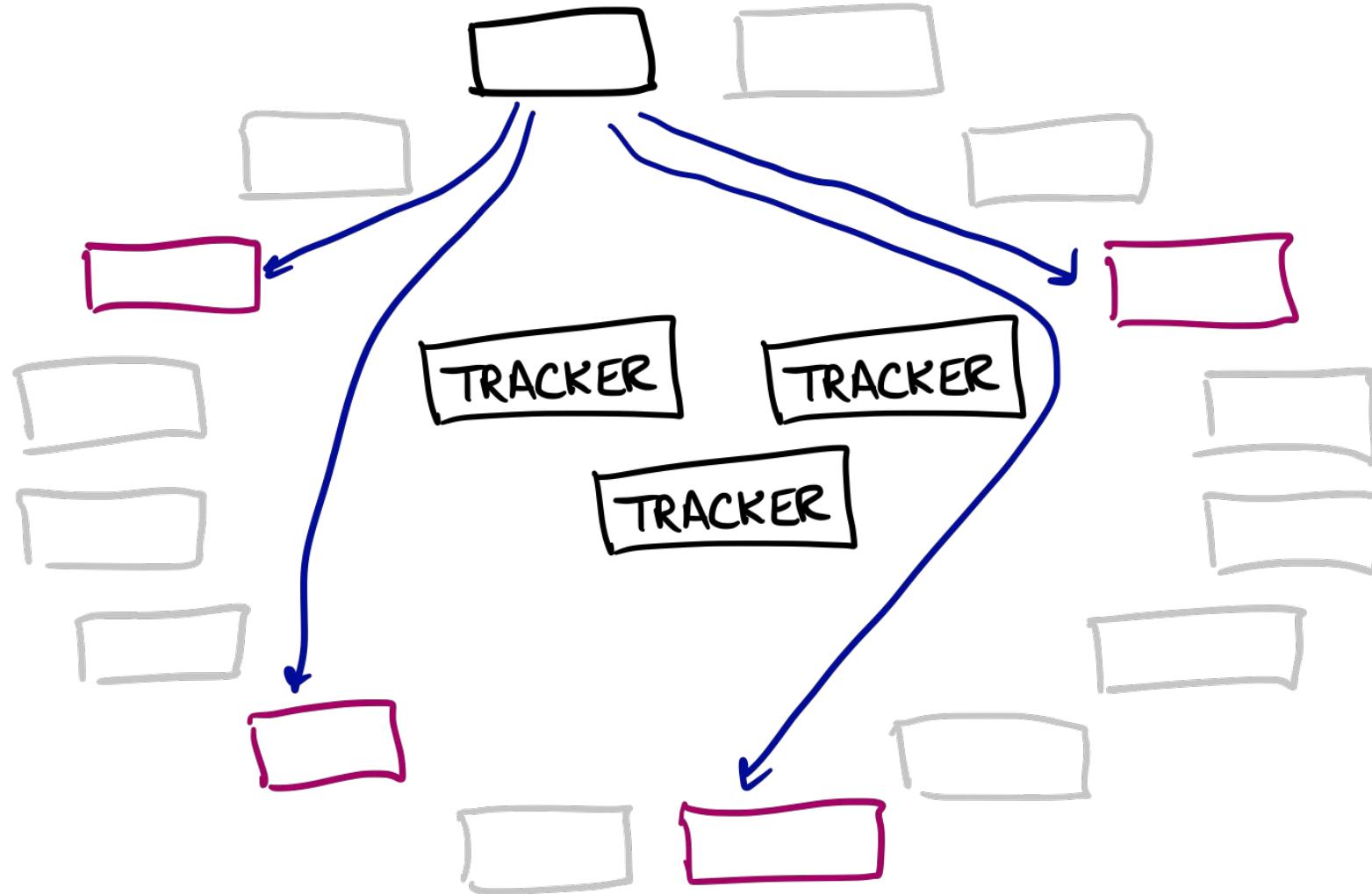
A long-exposure photograph of a waterfall cascading over mossy rocks in a forest setting. The water flows from the top left towards the bottom right, creating a blurred, white mist against the dark, textured rocks. The surrounding environment is lush with green moss and small plants growing on the rocks.

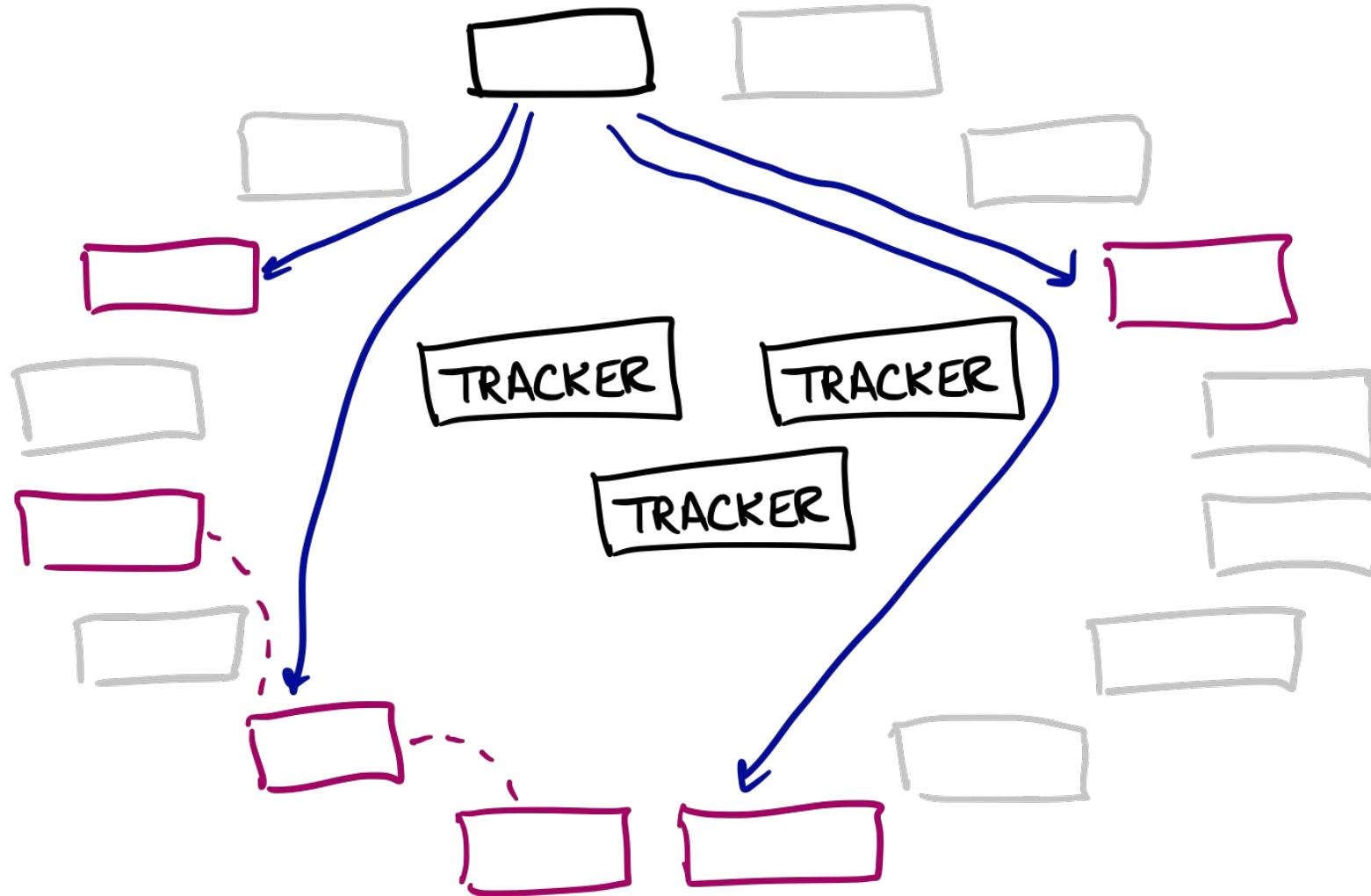
BitTorrent

**INDEX  
SERVER**







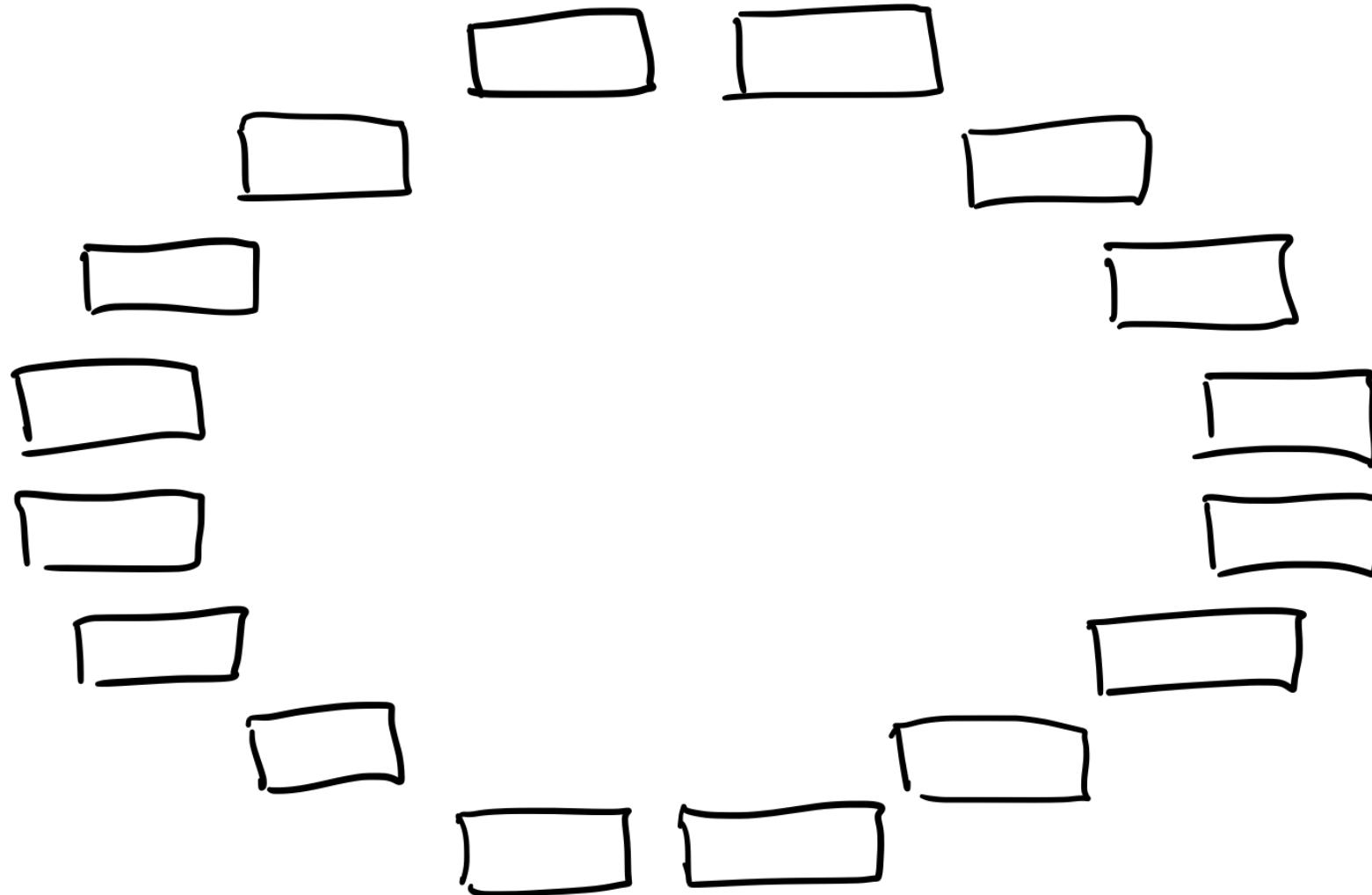


# Problems?



# Distributed Hash Table (DHT)





0146

1513

0001

1663

7670

1664

7017

12153

6662

2164

5123

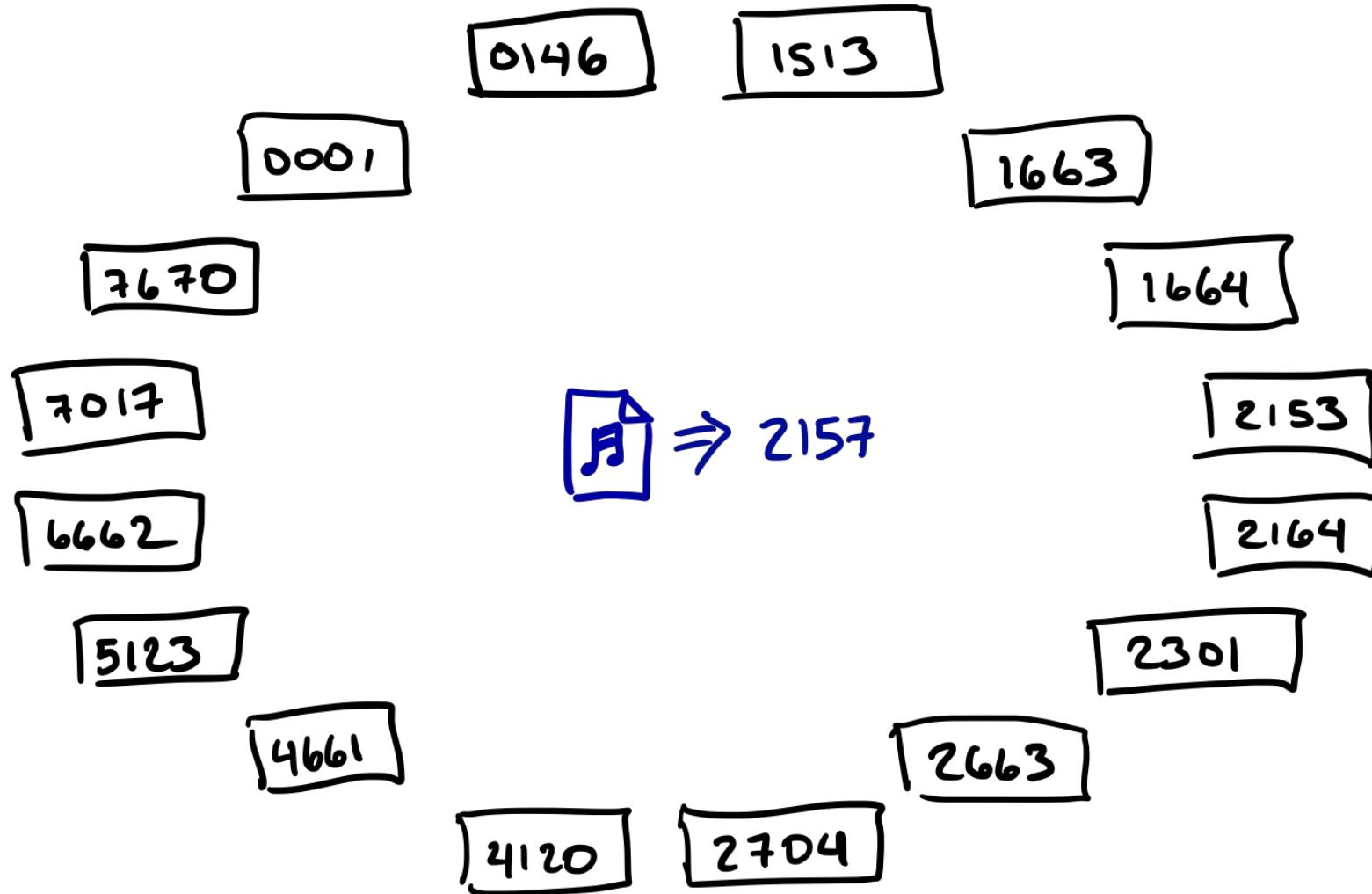
2301

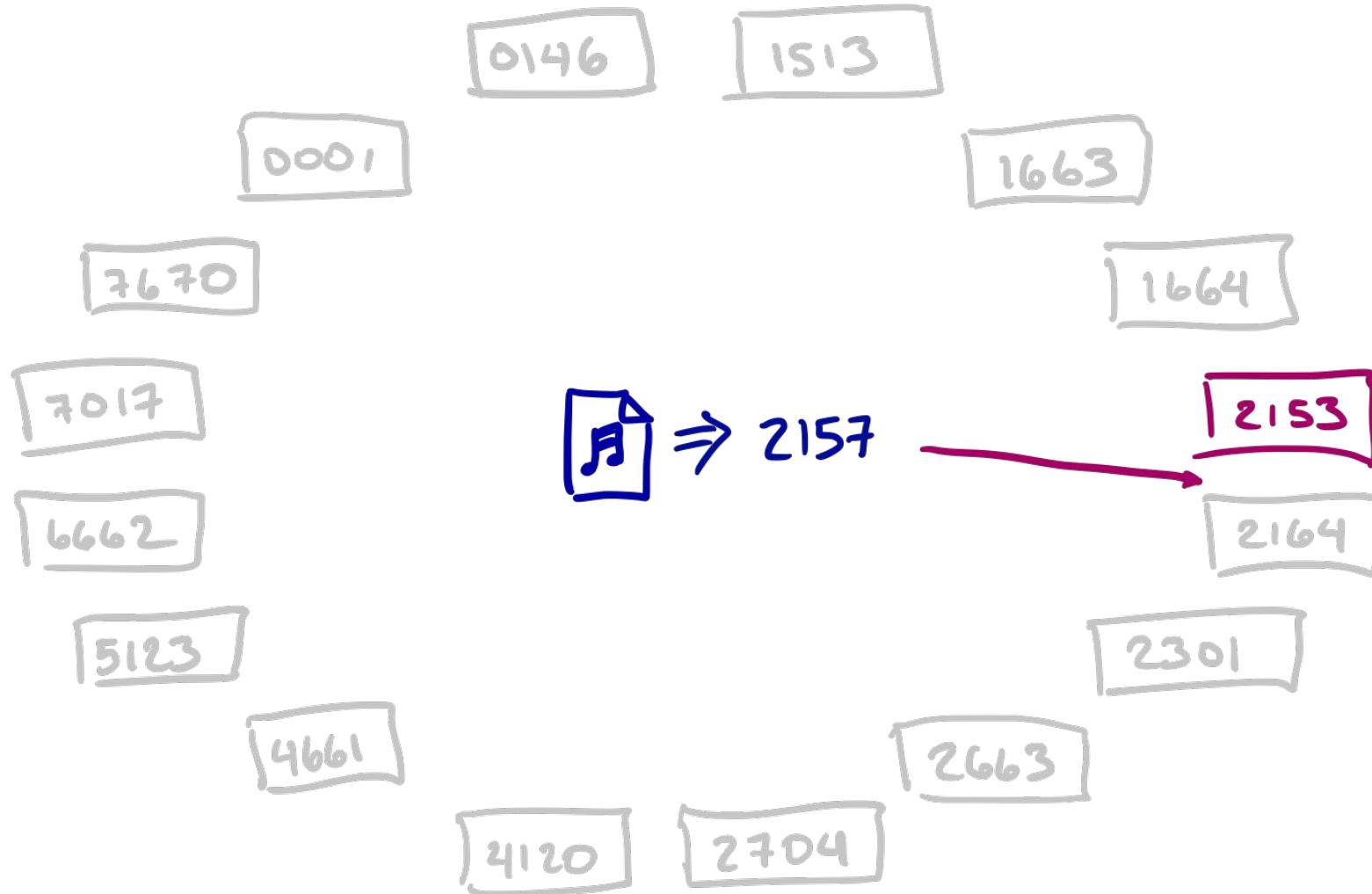
4661

2663

4120

2704





**0146**

1513

0001

2157



1663

7670

1664

7017

**12153**

6662

2164

5123

2301

4661

2663

4120

2704

0146

1513

0001



2157

7670

7017

6662

5123

4661

4120

2704

1663

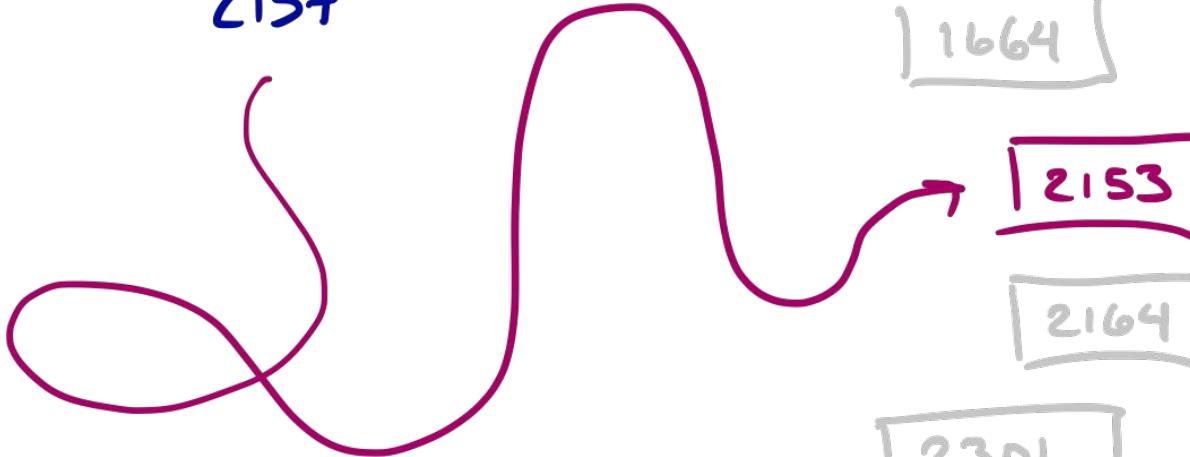
1664

12153

2164

2301

2663



0146

1513

0001



2157

7670

7017

6662

5123

4661

4120

2704

1663

1664

12153

2164

2301

2663

?

# Pastry





Proximity

0146

1513

0001

1663

7670

1664

7017

12153

6662

2164

5123

2301

4661

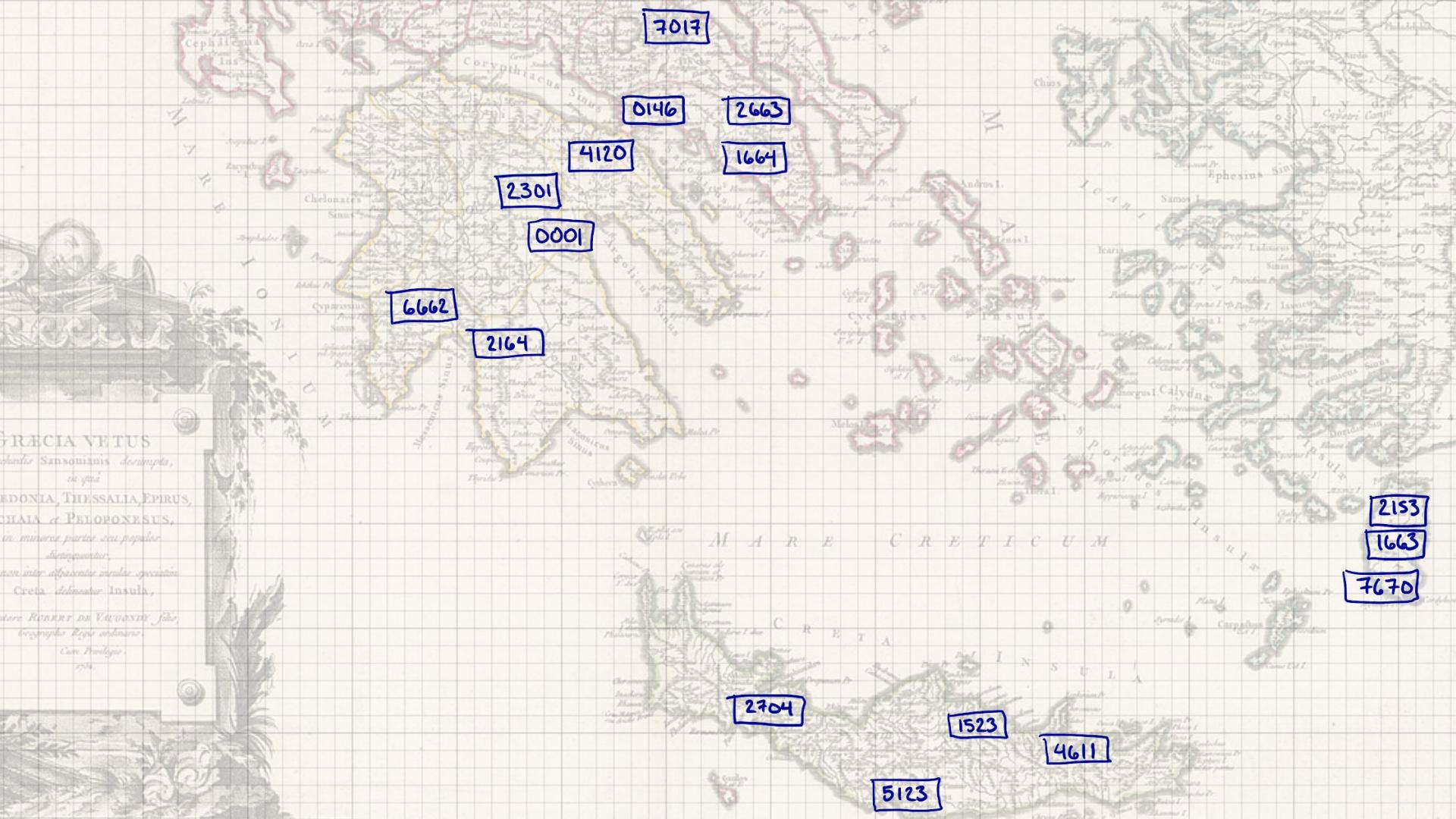
2663

4120

2704

**GRECIA VETUS**  
Ex eiusdem *Sansonianis* decumpta,  
in qua  
**EDONIA, THESSALIA, EPIRUS,**  
**ACILIA & PELOPONESUS,**  
in minoris partis seu populos  
distinguuntur;  
non inter adjacentes insulas operatio  
Creta, delimitatur Insula,  
auctore ROBERT DE VAUGONDY filio.  
Geographo Regis ordinario.  
Cum Prologio.  
1740.





0146

1513

0001



2157

7670

7017

6662

5123

4661

4120

2704

1663

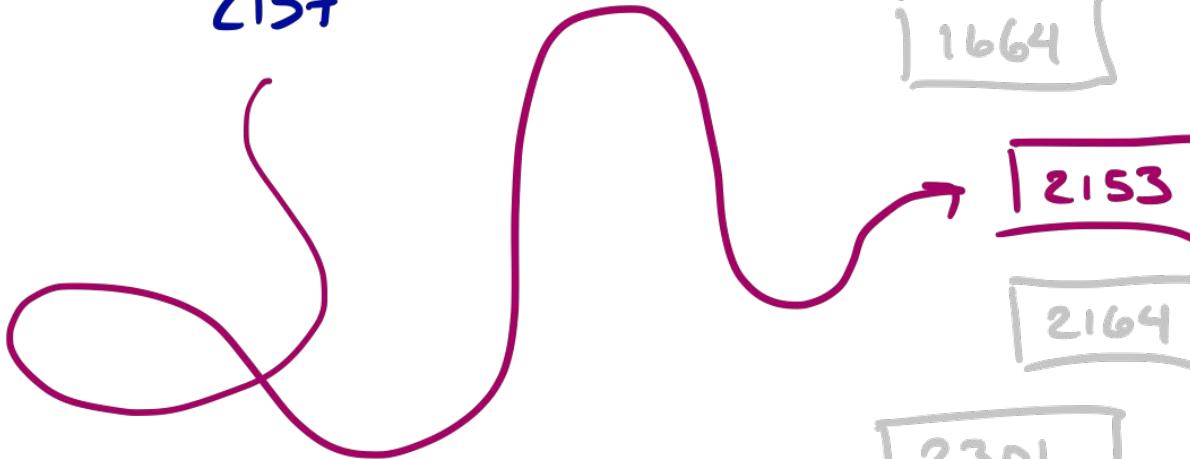
1664

2153

2164

2301

2663



**0146**

1513

0001

1663

7670

1664

7017

12153

6662

2164

5123

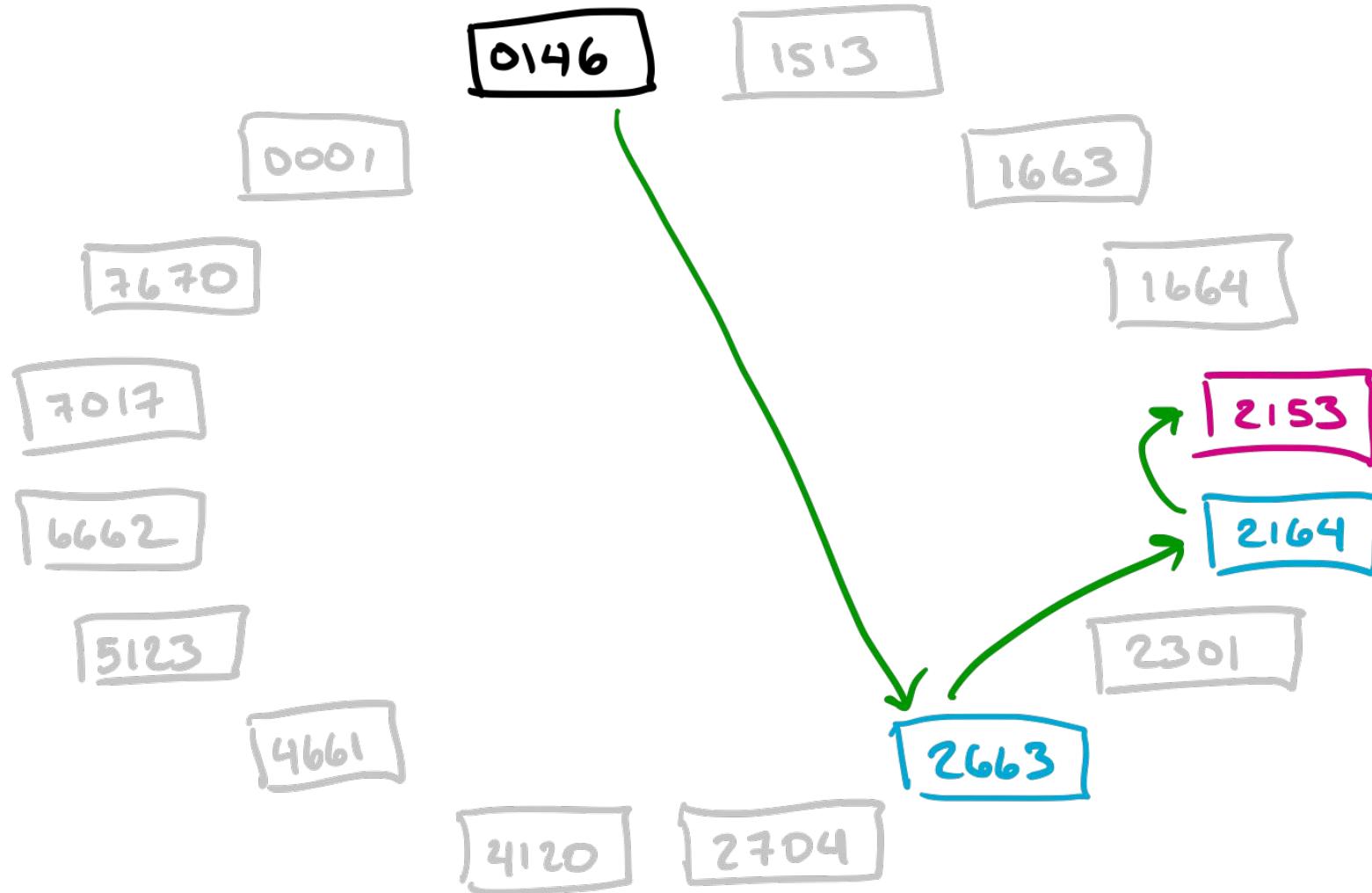
2301

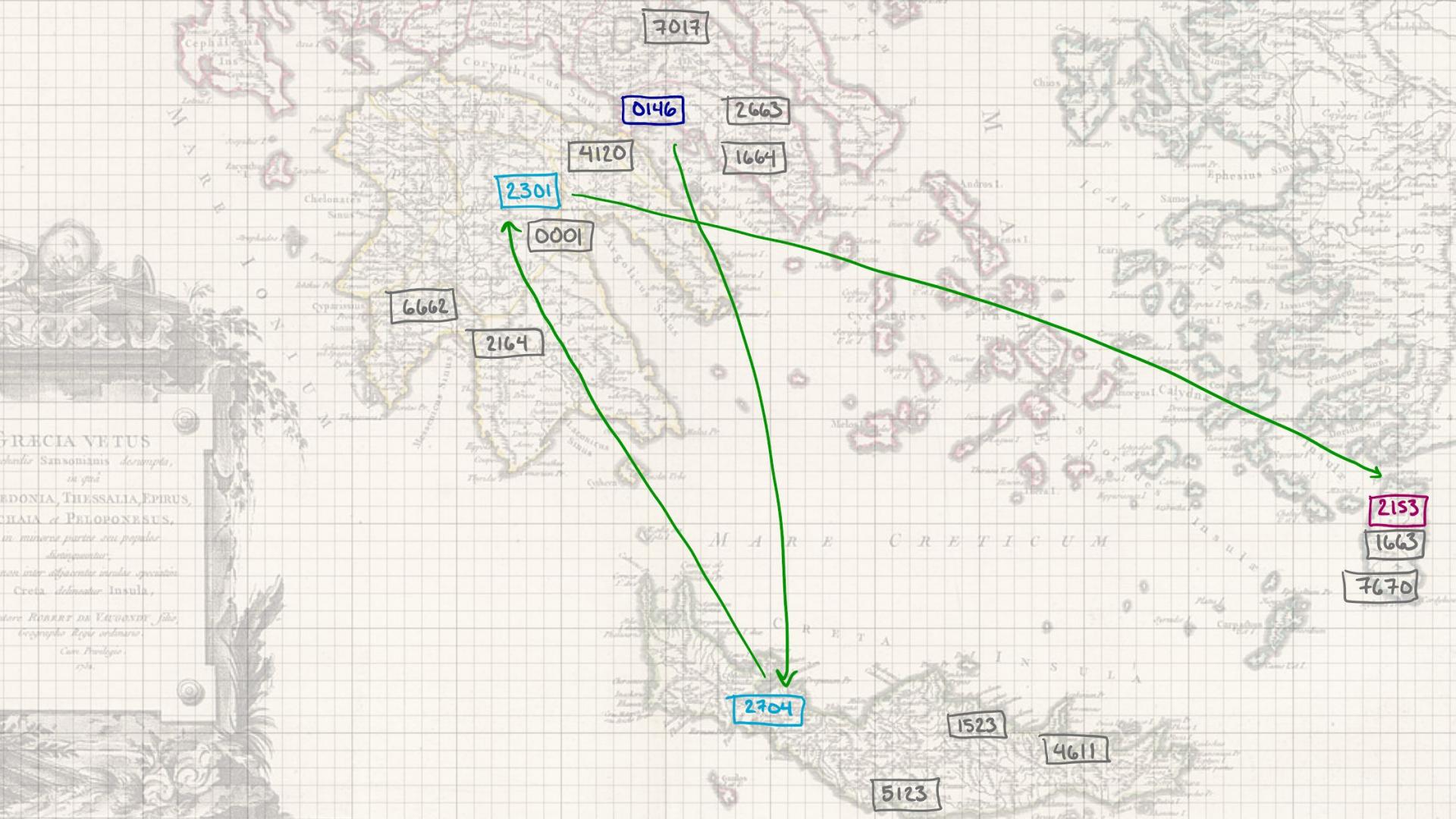
4661

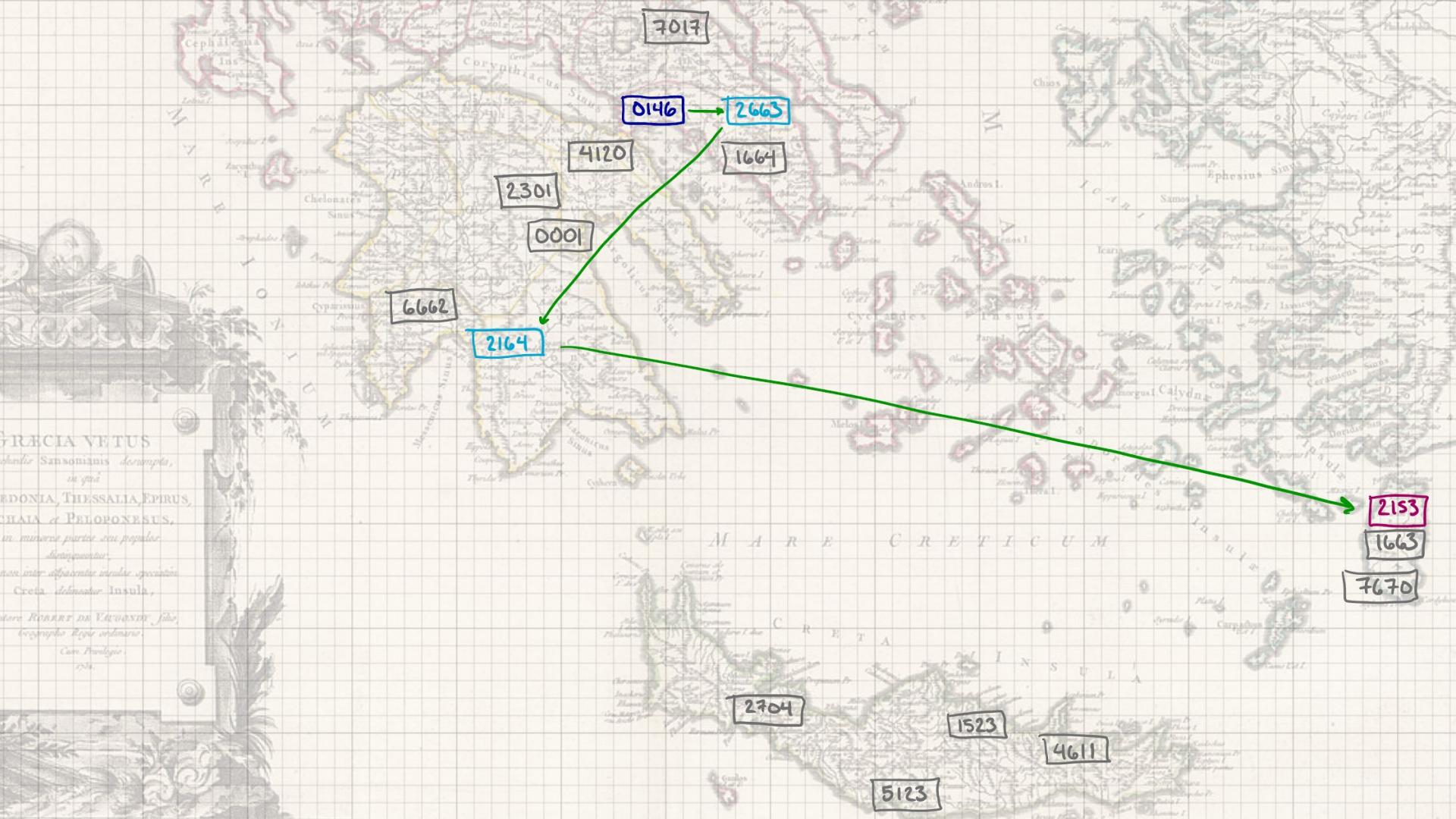
2663

4120

2704







**0146**

	0	1	2	3	4	5	6	7
X	—	1664	2663		4120	5123	6662	7017
0X	0001	—						
01X					—			
014X							—	

**0146**

	0	1	2	3	4	5	6	7
X	–	1664	2663		4120	5123	6662	7017
0X	0001	–						
01X					–			
014X							–	

→ **2157**

**0146**

	0	1	2	3	4	5	6	7
X	–	1664	2663		4120	5123	6662	7017
0X	0001	–						
01X					–			
014X							–	

→ **2157**

**0146**

	0	1	2	3	4	5	6	7
X	–	1664	2663		4120	5123	6662	7017
0X	0001	–						
01X					–			
014X							–	

→ **2157**

**2663**

	0	1	2	3	4	5	6	7
X	0146	1664	-		4120	5123	6662	7017
2X		2164		2301			-	2704
26X							-	
266X				-				

→ **2157**

**2663**

	0	1	2	3	4	5	6	7
X	0146	1664	-		4120	5123	6662	7017
2X		2164		2301			-	2704
26X							-	
266X				-				

→ **2157**

**2663**

	0	1	2	3	4	5	6	7
X	0146	1664	-		4120	5123	6662	7017
2X		2164		2301			-	2704
26X							-	
266X				-				

→ **2157**

0146

1513

0001

1663

7670

1664

7017

12153

6662

2164

5123

2301

4661

2663

4120

2704

0146

1513

0001

1663

7670

1664

7017

12153

6662

2164

5123

2301

4661

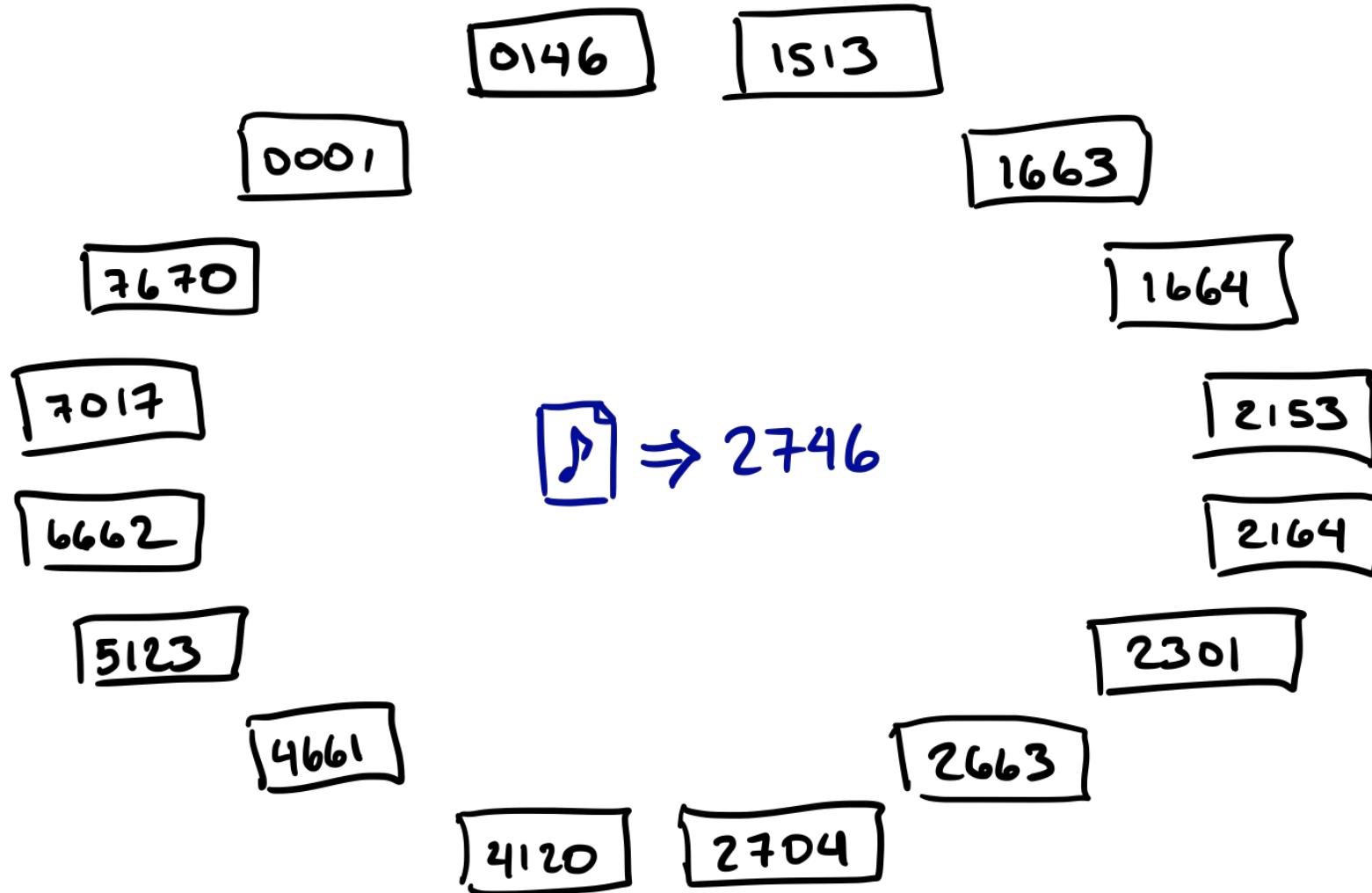
2663

4120

2704



# Broadcast



0146

1513

0001

1663

7670

1664

7017

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6662

2164

5123

2301

4661

2663

4120

2704

♪ ⇒ 2746

0146

1513

0001



1663

7670

2746



1664

7017

2746

12153

6662

2164

5123



4661

4120

2704

2704

2663

2301

0146

1513

0001



2746



2746

1663



2746

1664

7017

12153

6662

2164

5123



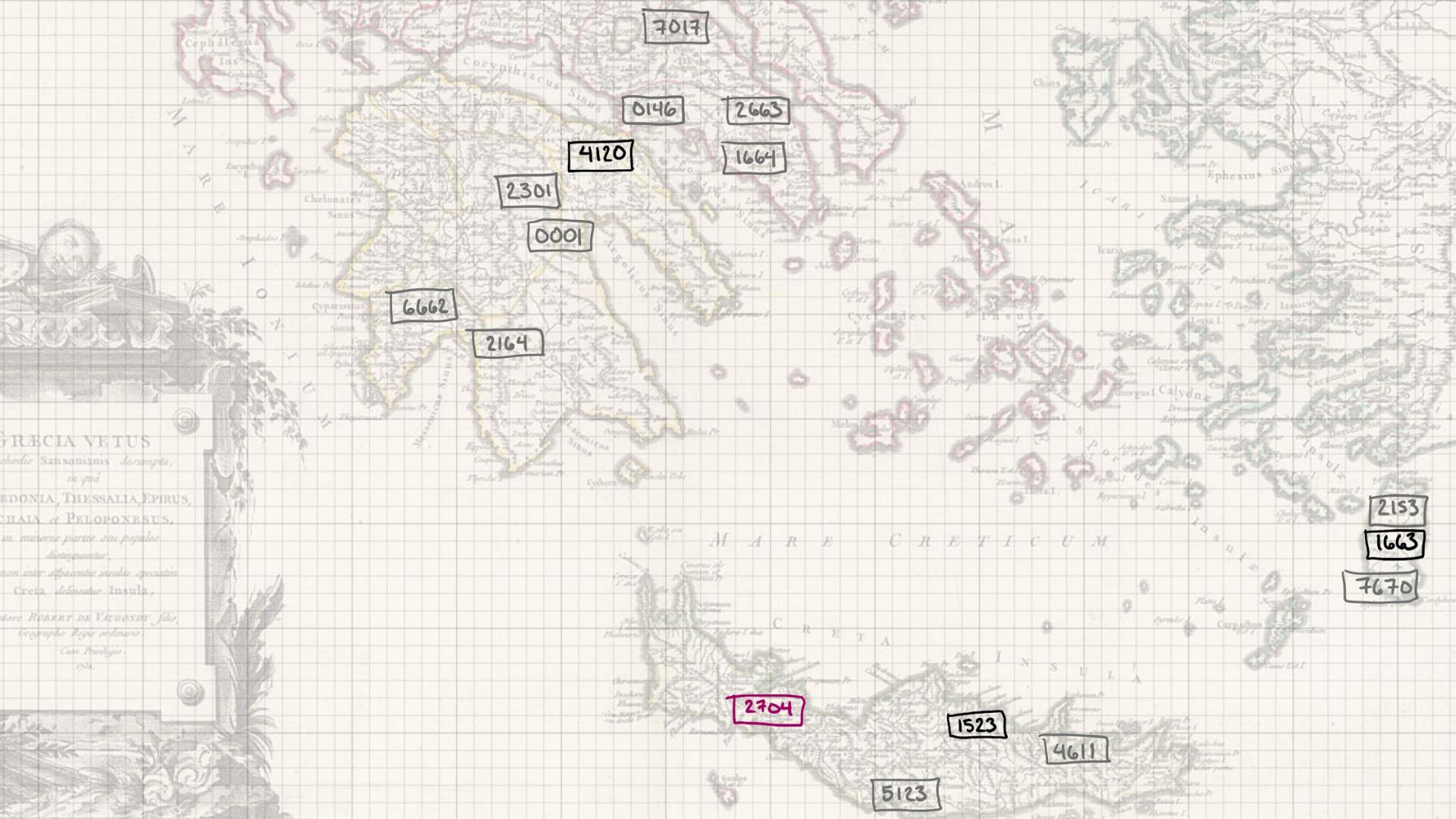
4661

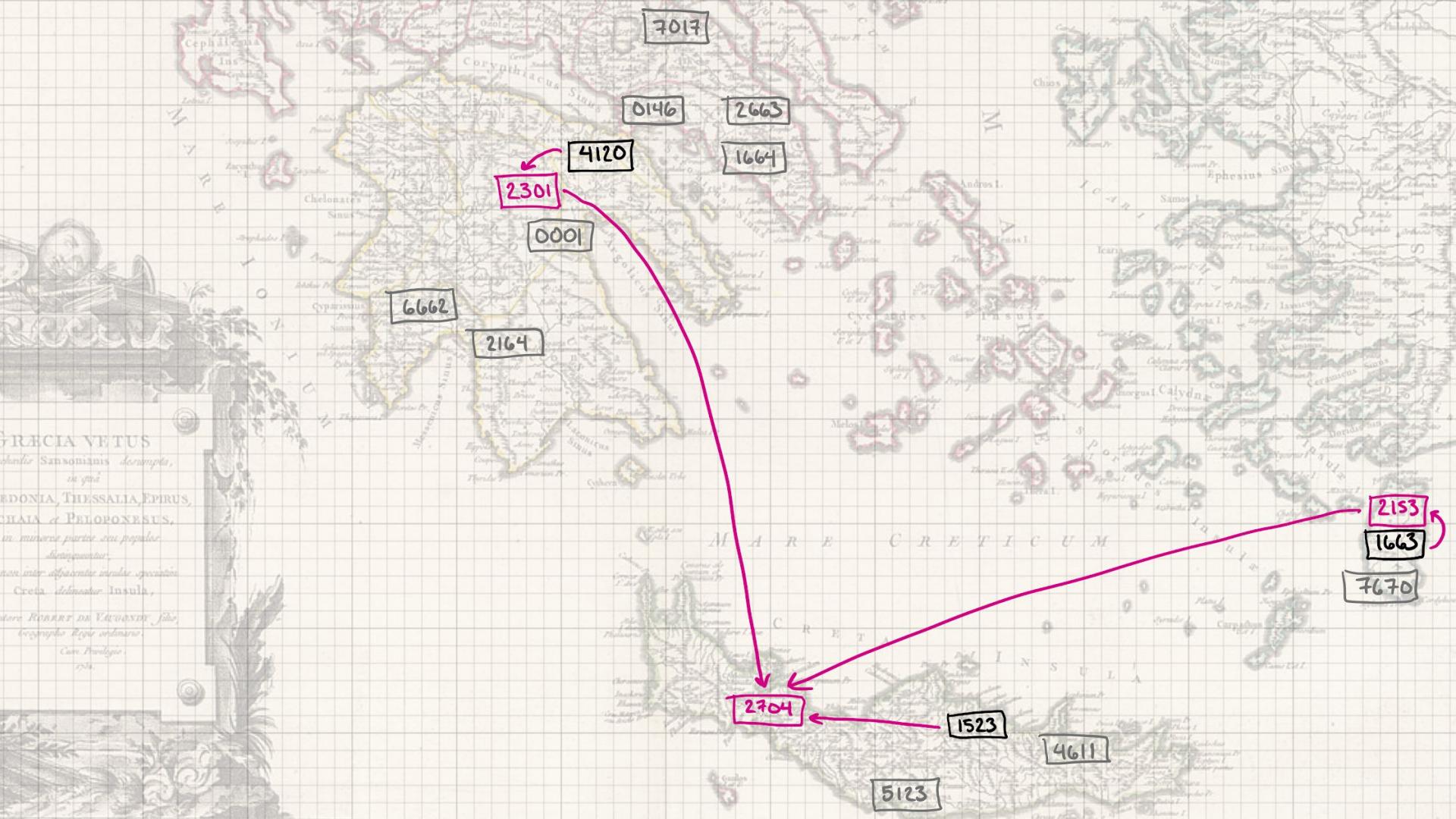
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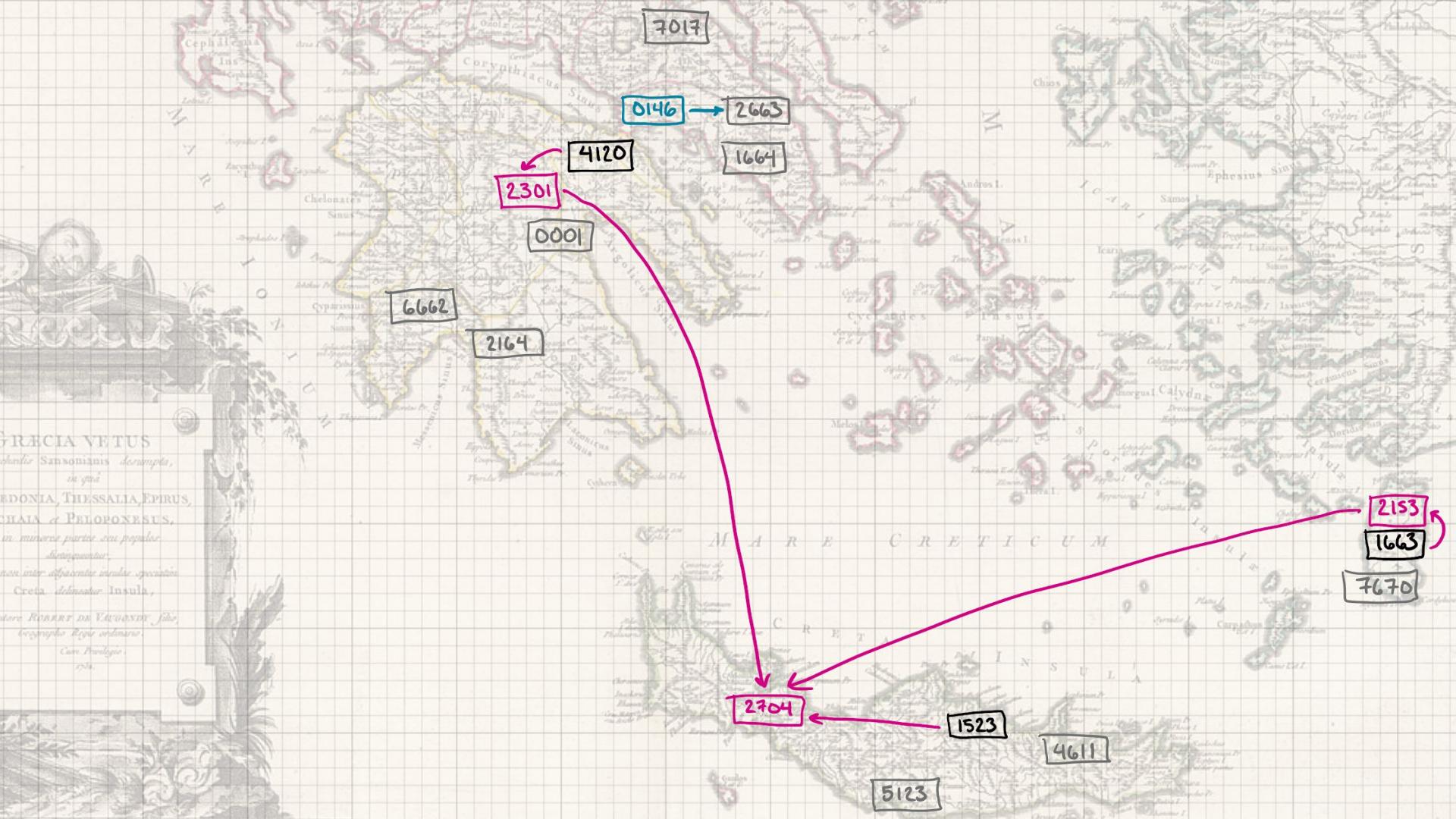
2704

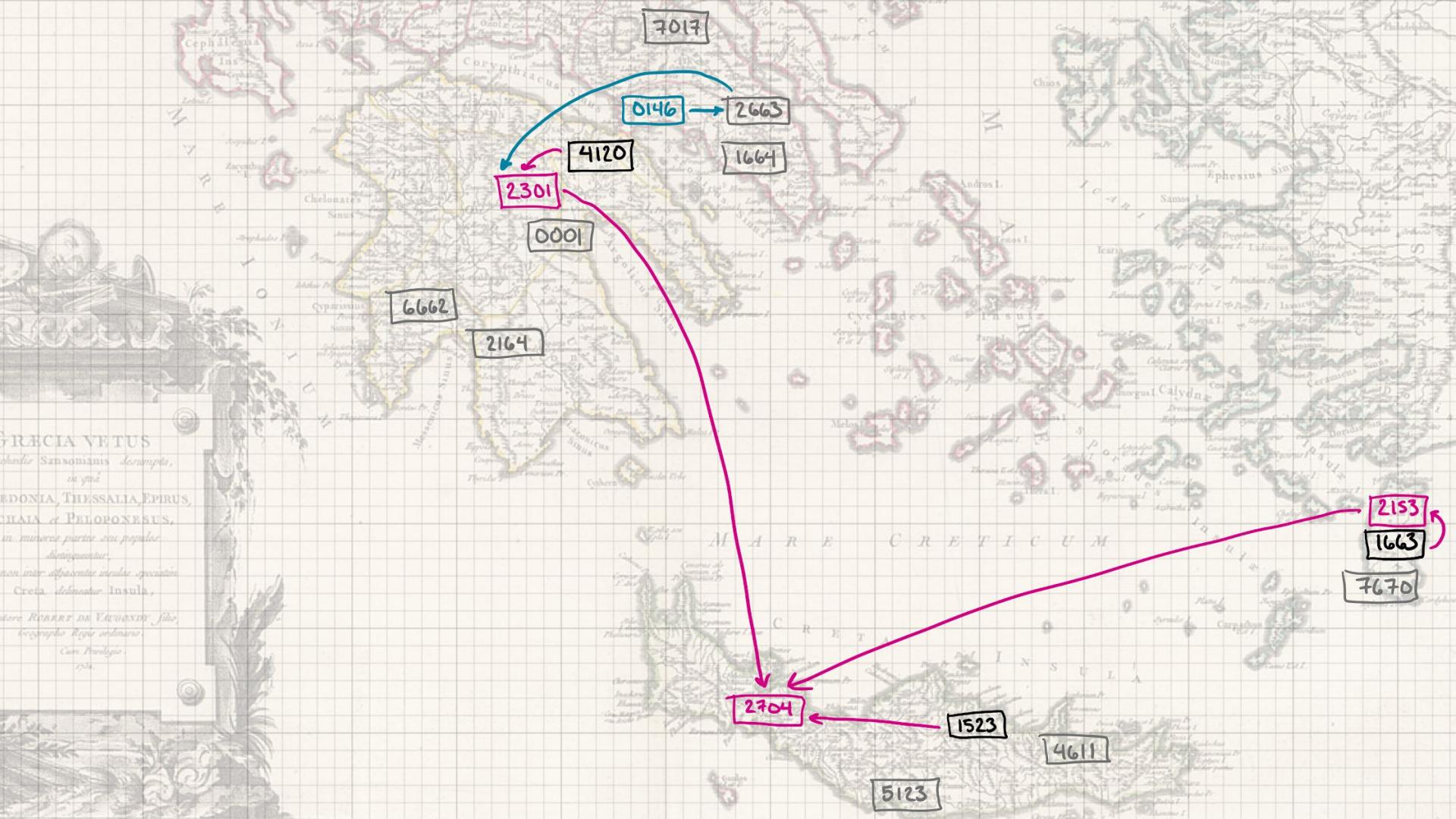
2663

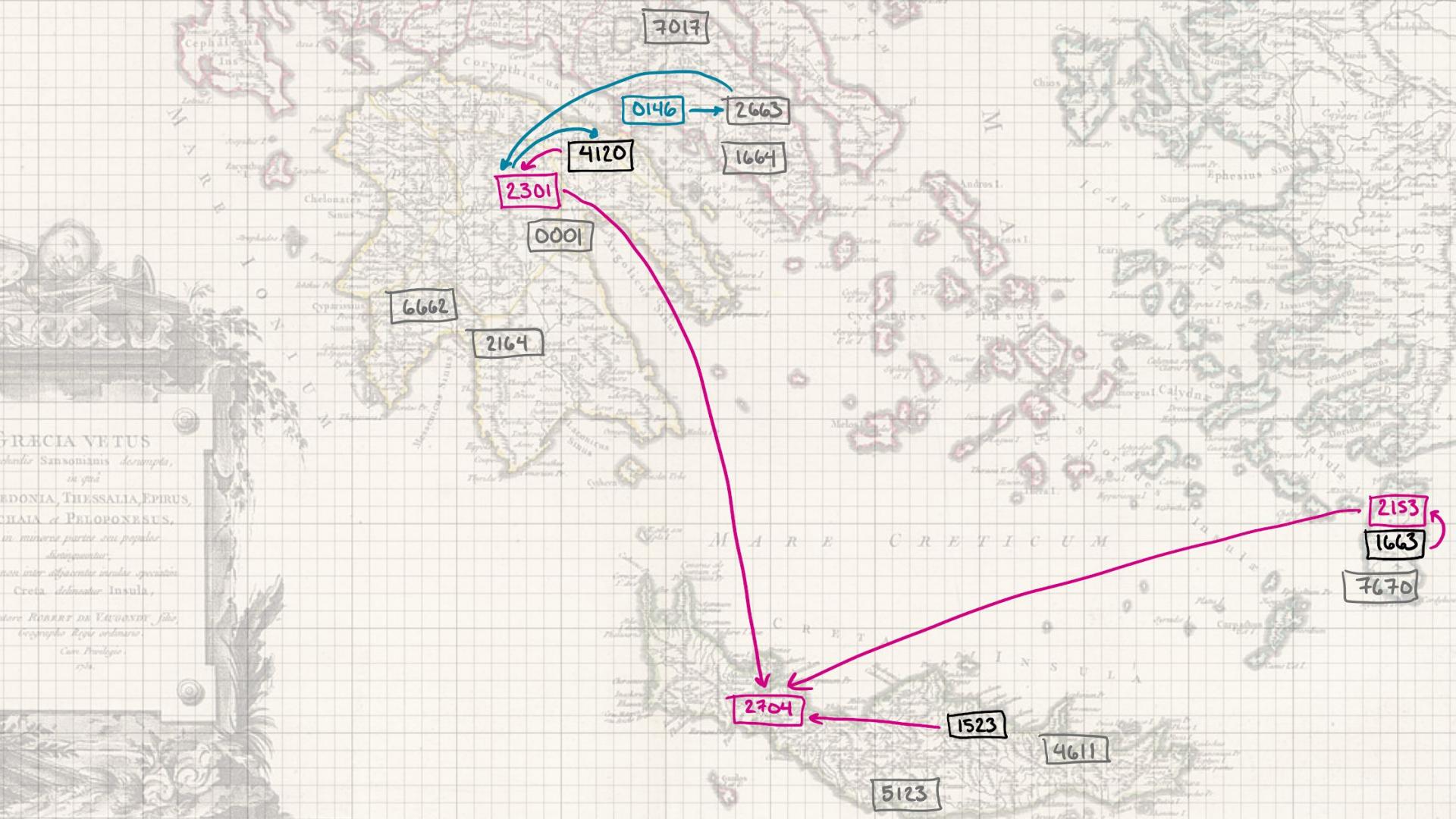
2301











# Image credits

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- Painting of a pirate ship.  
[https://commons.wikimedia.org/wiki/File:Painting\\_of\\_a\\_pirate\\_ship\\_\(after\\_1852\),\\_after\\_Ambroise\\_Louis\\_Garneray.jpg](https://commons.wikimedia.org/wiki/File:Painting_of_a_pirate_ship_(after_1852),_after_Ambroise_Louis_Garneray.jpg)
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- Map of Ancient Greece. [https://commons.wikimedia.org/wiki/File:Graecia\\_Vetus\\_Map\\_of\\_Ancient\\_Greece.jpg](https://commons.wikimedia.org/wiki/File:Graecia_Vetus_Map_of_Ancient_Greece.jpg)
- town crier, Bryan Ledgard. <https://flic.kr/p/37HGkq>
- Taal Lake and Volcano, Tagaytay, Philippines, Ray in Manila. <https://flic.kr/p/K4eXcB>



Fin.

# Backup

0146

1513

0001

1663

7670

1664

7017

12153

6662

2164

5123

2301

4661

2663

4120

2704

**4120**

	0	1	2	3	4	5	6	7
X	0146	1664	2301		-	5123	6662	7017
4X		-					4661	
41X			-					
412X	-							

**2301**

	0	1	2	3	4	5	6	7
X	0001	1664	-		4120	5123	6662	7017
2X		2164		-			2663	2704
23X	-							
230X		-						

**1663**

	0	1	2	3	4	5	6	7
X	0001	–	2153		4611	5123	6662	7017
1X						1523	–	
16X							–	
166X				–	1664			

**2153**

	0	1	2	3	4	5	6	7
X	0146	1663	-		4611	5123	6662	7670
2X		-		2301			2663	2704
21X						-		
215X				-				

**1523**

	0	1	2	3	4	5	6	7
X	0001	–	2704		4611	5123	6662	7670
1X						–	1663	
15X			–					
152X				–				