

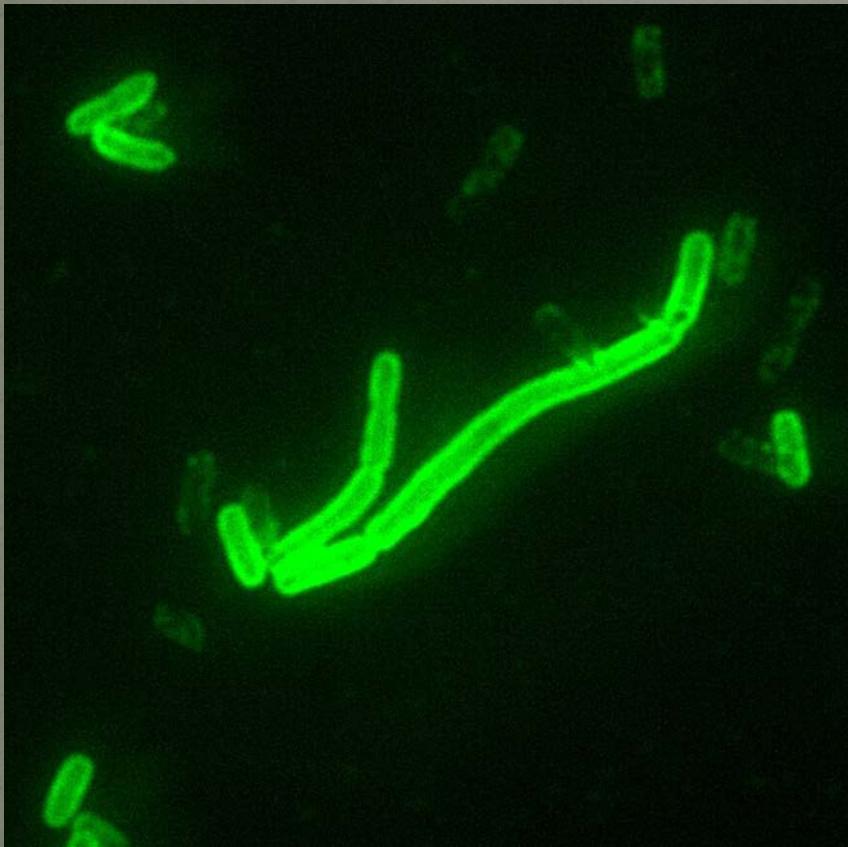
# Death by Numbers

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DH and the London Bills of Mortality

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# Bubonic Plague



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# Plague in European History

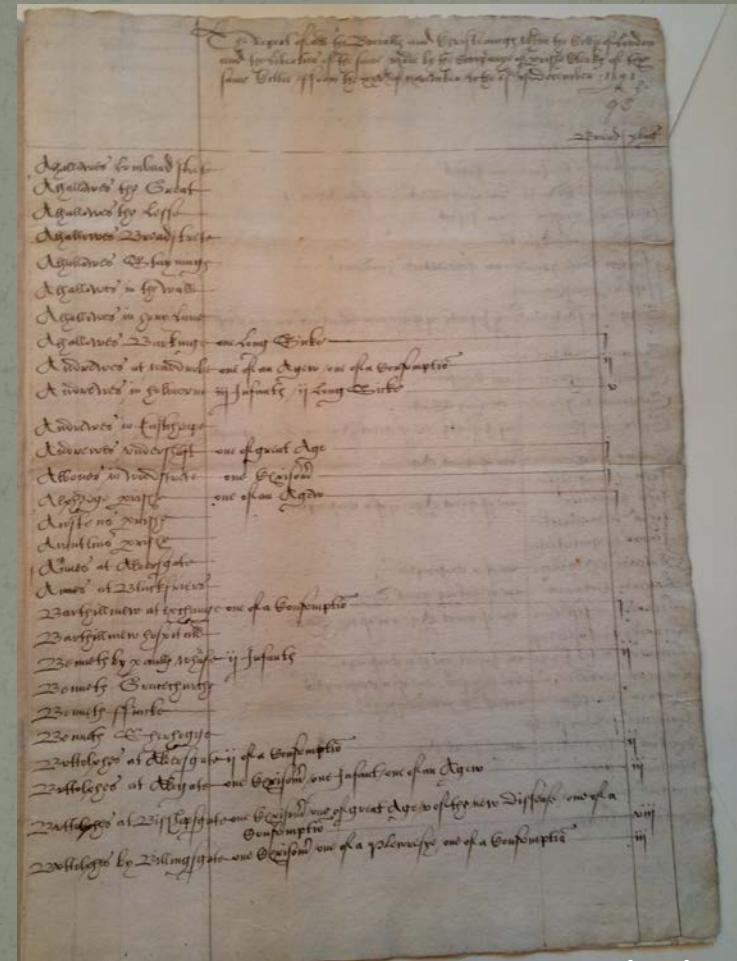
- First Pandemic
  - began with the Plague of Justinian, 541
  - last recorded plague outbreak circa 750
- Second Pandemic
  - began with the Black Death, 1346/8
  - ended in Britain with the Great Plague of London, 1665-1671
  - ended in France with the Great Plague of Marseille, 1720-22
  - lingered in Eastern Europe until 1770s
- Third Pandemic
  - began to spread out of China in the 1890s
  - most recent US cases of plague: 2017 (!)

# London Record-Keeping in the 16<sup>th</sup> Century

1562	60
Bartelmeus the Lysse a	2 leuvenij
bermet at powles rocheste a	2 i d lly
bermet grace gurney a	2 d lny
bermet flimke a	2 leuvenij
bermet george a	2 nij
bartelmeus at aldergate a	2 n i s
bentolpe at alegate a	2 n i s d lny
bentolpe at bellpest a	2 d lny
bentolpe at bellpest gal a	2 i d lny
bartelmeus godspill a	2 i t d o
brydes george a	2 n i s l o r e y
crift remy a	2 m i t b o i j
cristopher penysse a	2 t h
Clement bys eas hege a	2 leuvenij
Denis bartle remy a	2 i d d o p o
Duntemer paressa m syt afe a	2 i d d e c t y
Duntemer in the creste a	2 m d lny
Edmones in chamburk sturt a	2 i d t o i
flated condar verlode a	2 i d t o i
flates' pearey a	2 i d d o v i j
Gervys in sonderwiche a	2 m i t d o m
george in hastyn gane a	2 d lny
gabryell of waddinge a	2 i d l
grecory by powlde a	2 i d lny
gold at chippinge a	2 i d t o l
hercyn paressa a	2 t lny
hercyn examplyf a	2 d o v i
hercyn felde a	2 i d d o p o
hercyn in aralbroke a	2 i d l d o
hercyn at parkole syde a	2 i d t o m
hercyn walgrave a	2 i d d o p o
hercyn woldmay a	2 i d d o
	1562
Leonard in fforstar Lane a	2 m i t d i n y
Leonard in speterepe a	2 t o i
Lawrens in leyt frony a	2 i d lny
Lawrens perwinche a	2 i d t o d
Margrety paury ssi a	2 i d lny
matthewen in foycayre stane a	2 d o v i
marlyn in leyt sonthe a	2 i d t o d
marlyn orotwiche a	2 t o i
marlyn orotwiche a	2 d o v i
marlyn fermonges lane a	2 d lny
marlyn at leyd gate a	2 i d t o k
marlyn at bayninge gate a	2 i d l o r e
marlyn in romegate a	2 i d t o c o m
marlyn in wade brice a	2 i d t o m
marlyn in leyt beallie a	2 i d t o m
marlyn quynne a	2 i d d o v i
marlyn at quynne gate a	2 i d d o v i
marlyn in wade lane a	2 i d t o m
marlyn in leyt sonthe a	2 d o v i
marlyn in leyd stret a	2 t o i
marge the lone a	2 t o i
marge bordolope a	2 d o v i
Marye at syde a	2 i d t o l y
Marye somerett a	2 i d d e c t y
Marye abermange a	2 i d d o v i
Marye woderwiche a	2 t o i
Marye woderwiche a	2 t o i
Marye woderwiche a	2 t o i
Marye tharmargy a	2 i d d o v i
Marye strungys a	2 d lny
Maryelyn in mythe strete a	2 d l
Maryelyn in deffistret a	2 i d t o d
Maryelyn in mende strett a	2 d o t
Maryelyn wathens a	2 t o i
Maryelyn moysses a	2 d o i

# Reporting to the Monarch

- each of London's parish clerks submitted weekly death tolls, *with cause of death*, to Company
- information compiled into a single document
- presented weekly to the monarch (or servants)
- long, detailed reports



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# Plague in 17<sup>th</sup>-Century London

## Major Outbreaks

- 1603-11
- 1625-26
- 1636-48
- 1665-6(ish)

## Highest Mortality Years

- 1603: 25,045
- 1625: 26,350
- 1636: 10,400
- 1665: 55,797

# Weekly London Bill of Mortality, 1603 Epidemic

including:

- parish-by-parish breakdown of deaths
- total deaths vs. plague deaths
- sum total of all parish deaths
- sum totals from previous weekly Bills
- sum totals of all weekly Bills

**THE TRUE COPIE OF ALL THE BURIALS AND CHRISTNINGS**  
In the City and within the City of LONDON as the Liberties thereof, and other Parishes in the skirts  
of the same, and within the Walles, and without the same, and within the Liberties, and  
Parishes of the said City, and of the Freedome, according to the report made to the Kinge most excellent Mafter, by the  
Company or Parish Clerkes of the said Cittie. From the 2. of October, 1603, to the 3. of No  
vember, 1603, whereof the true Relation of the whole number of persons that have dyed  
in this Citie, from the 1. of December, 1602, to the 3. of this present month, November  
1603, with the names of the places where they have dyed in 1603, for the  
sixty two weeks, since the sicknes began.

Burialls	Or the	Number	Of the	Number
London				
within the				
Walles.				
Albionnes Woodstreet	1	4	Margrete Pattens	3
Albionnes Lawberstreet	1	2	Margrete Moyses	2
Albionnes the great	1	4	Margrete Lathe	7
Albionnes the lete	1	3	Martins in the Fritey	8
Albionnes Breadstreet	1	3	Martins Organ	3
Albionnes Bayning	1	2	Martins Ironmonger Lane	4
Albionnes the Wall	1	2	Martins Lutgate	4
Albionnes Honey-Lane	1	0	Martins Outgate	4
Albionnes Barking	6	4	Maryle Rose	2
Albionnes at Cripplegate	1	3	Mary Botcham	2
Andromes by the Wardrobe	2	0	Mary at the bell	2
Andromes Eastcheape	6	6	Mary Alachar	2
Andromes under-halfe	8	7	Mary Woolchurche	5
Annes at Aldersgate	4	2	Mary Caldwel	0
Anne Black Fryers	10	9	Mary Wodehous	3
anuning Parb	1	0	Mary Aldemary	6
Austines Parb	3	3	Mary Aldemberry	8
Bartlemew at the Exch.	4	4	Mary S synnes	0
Bonnes at Pauls Wharf	7	5	Mary Mountane	1
Bonnes Grace-Church	0	0	Mary Sonnentes	6
Bonnes Frinch	0	0	Mathew Frayre street	1
Bonnes Shorlege	0	0	Maudins Milke street	1
Boustols Bilingate	6	6	Maudins by Olympester	3
Christ Church Pastridg	16	14	Mighels Balste shaw	1
Christopheris Parb	4	4	Mighels Corne hill	4
Clementis by Eastcheape	4	4	Mighels Woodstreet	5
Dennis Backe-Church	7	5	Mighels in the Kyall	1
Doufes in the Egle	8	7	Mighels in the Gurne	2
Edmunds in Lumbeard d.	5	3	Mighels Queene hyst	2
Ethelbore wthin Bishopsg	5	4	Mighels Crokdale	8
F. Fathres	10	5	Mildreds Poultrey	4
G. Fosters in Foister-lane	0	0	Mildreds Bredstreet	1
Gabriel Fan-Church	3	2	Nicholas Acons	2
George Bowbale Lane	2	2	Nicholas Cole-abby	6
Gregoris by Paules	8	2	Nicholas Olave	2
Hellenes wthin Bishoptg	0	0	Olaus in the Tury	1
James by Grike bith	4	3	Olaus in Hartfreet	4
John Engegell	1	0	Olaus in Silver stree	4
John Zachariet	3	3	Pancras by Saple Lane	0
Johns in the Walbroke	2	2	Peters in Cornhill	5
Katherines Cree-Church	12	11	Peters in Cheape	0
Katherine Colemans	3	3	Peters the poore in broadst	1
Laurence in the Tury	1	0	Peters at Pauls wharf	0
Laurence Founteyne	2	0	Stephens in Colmanstreets	13
Leonards Foffer-lane	1	1	Stephens in Southwark	21
Leonards Eauchape	2	2	Saviouris in Southwark	27
Magnus parb by the Bridge	0	0	Seepchers parb	48
Margress New fishstreet	5	3	Thomas in Southwark	4
The number burdell wthin the Walles of London is 141. Whereof of the Plague 86.		11	Trinity in the Minories	1
London without the Walles, and with the Liberties, and with the Bridges, parb	31	27	Dunstones in the West	17
Bartlemew shelle & Smith	1	1	Georges in Southwark	10
Bartlemew the great Smith	2	2	Giles without Cripplegate	34
Bartlemew the smal Smith	1	1	Olaus in Southwark	24
Bridewell	22	18	Saviours in Southwark	27
Bridewell	17	4	Stepchters parb	43
Bridewell Prencinct	6	1	Thomas in Southwark	4
Boustols Ballyng	4	1	Trinity in the Minories	1
Boustols without Alderg	13	1	Martins in the Fields	36
The number burdell without the walles and within the liberties is 566. Whereof of the Plague 103.		30	Mary Whitechappell	21
Out Parishes adioining to the City.	33	10	Mary Whitchappell	18
Giles in the fields	13	10	Magdalens in Barnoldsay	7
James at Clarkenwell	7	4	strete	5
Katherines by the Tower	8	5	At the Peft-houfe	2
Leonaids in Shoredich	8	2	Buried without	128
Christning — 70 — Parishes cleare of the Plague — 18 — Parishes infected — 94		31	Whereof, Of the Plague	103
Buried in all within the places aforesaid				737
Whereof, Of the Plague				594

# General London Bill of Mortality, non-plague year

includes:

- parish-by-parish breakdown of deaths
- total deaths vs. plague deaths
- sum total of deaths
- christenings and burials, subdivided by gender
- causes of death

@jotis13

A generall Bill for this present yeere, ending the 17 of December 1629, according to the report made to the Kings most excellent Ma <sup>t</sup> By the Company of Parish Clerks of London, &c.			
Parish	Pl.	Parish	Pl.
Allhallowes Barking	29	Christophers	11
Allhallowes Breadfitter	93	Dionysie Bath-head	11
Allhallowes Great	28	Dunfan East-church	12
Allhallowes H-marie	8	Edmunds Lombard	60
Allhallowes Leff	41	Ethelbrough	24
Allhall Lambeth	20	Faversham	22
Allhallowes Staining	22	Faversham	32
Allhallowes the Wall	25	G-briet Fec-church	17
Alphage	23	George Borophane	17
Alphage	13	Gregories by Pauls	66
Andrew Undershaft	30	Hellege	25
Andrew Wardrobe	53	Iane Dukerplace	27
Anne Alterfayre	53	James Gaslachinthe	35
Anne Bla-k-e Friers	82	John Baptis	19
Antonell Parfitt	21	John Evangelis	7
Antonell Parfitt	22	John Zacharie	23
Batholle Exchange	14	Katherine Coleman	34
Bennet Grace church	10	Katherine Creechuch	67
Bennet Pauls Wharfe	8	Larence Lewie	25
Bennet Sherehog	52	Lawrence Pountney	36
Bough Billingsgate	23	Leonard Eastcheap	13
Chinl Church	91	Leonard Tollerane	35
Magnus Parfitt	38	Magnus Parfitt	38
Buried in the 17. Parfitts within the walls, — 2536 VVhereof of the Plague.			
Andew Holborne	412	Bridewell Precent	28
Bastinnew Great	5	Bristol Aldergate	68
Bastinnew Leffe	21	Bristol Algate	435
Butes Parfitt	210	Bishop Billingsgate	271
Buried in the 16. Parfitts without the walls — 3992 VVhereof of the Plague.			
Clem : Danes	219	Katherines Tewer	189
Giles in the Fields	211	Lechards Shwaditch	199
James at Clarknewell	188	Martins in the Fields	393
Buried in the nine out Parfitts, ex Antidote and Survey, and at the Pest houze, 2243 VVhereof of the Plague.			
The total of all the burials this year —	8771	Mary Whitechappel	494
VVhereof of the Plague	0	Magdalen Bermond	145
The total of all the christenings	9901	Giles Cripplegate	544
In 17. ministris this year — Buried — 508 VVhereof of the Plague — 0 Christening — 575			
At the Pest houze —			
Sauvres Southwarke			
Seuclches Parfitt			
Thomas Southwarke			
Trinity Minories			
At the Pest houze —			
Mother —			
Feauer —			
Fistula —			
Flocks and Small Pox —			
French Pox —			
Frets —			
Gangrene —			
Gourefe —			
Griefe —			
Iaudis —			
Iawfaine —			
Imposfhumne —			
Kild by feuerall accidents —			
Kings Ewill —			
Leprefe —			
Lethargie —			
Liuergowne —			
Lunatik —			
Made away themselues —			
Measles —			
Males —			
Christened	52187	Males	46687
Females	4683	Females	4103
In all	9901	In all	8771
Whereof, of the Plague —			
Decreased in the whole number —			
LONDON, Printed by Richard Hedges, 1630.			

“They haue beeene and are very diligent in enquiring after the weekly Bils of mortality, and they that could first obtaine the Bill from their Parish Clarks haue acknowledged to be most beholden vnto them... if they haue found an increase of the number, haue they humbled themselues in Prayer, endeaououring to depart from their sinnes, & to trauaile to this Towre-Royall, in the sequell, for safetie? Surely, no, few or none haue so done: the *increase* happ'ly hath deighted them, made them murmure, and project to flee to their Country-houses here or there, and peraduenture to send beforehand their Wiues, Children, and Houshold-stuffe.”

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J. D. Salomons *Pest-Hovse, Or Tovvre-Royall* (London: Thomas Harper, 1630), A4v.



August 3, 1665: “And then mounted and rode very finely to Dagenham’s – all the way, people, Citizens, walking to and again to enquire how the plague is in the City this week by the Bill – which by chance at Greenwich I had heard was 2010 of the plague, and 3000 and odd of all diseases; but methought it was a sad question to be so often asked me.”

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Samuel Pepys, *The Diary of Samuel Pepys*, eds. Robert Latham and William Matthews (Berkeley: University of California Press, 1972), 6:180.

# Standardizing the Weekly Bill

London 29. From the 29. of June to the 6. of July. 1680.		
Bur.	Pl.	Bur. Pl.
✓ A. Eliza Wood Street	✓ St. Gregory by St. Paul's	✓ Maria Newington
✓ Alabone Bowdins	✓ James Duke place	✓ Maria Lodgate
✓ Alabone Broadstreet	✓ James Gerlachine	✓ Maria Organs
✓ Alabone Great	✓ John Baptis	✓ Maria Quincey
✓ Alabone Henlins	✓ John Evangelis	✓ Mariae Vtus
✓ Alabone Letts	✓ John Lazarens	✓ Maries Brickfields
✓ Alabone London Bridge	✓ John Letherell	✓ Michael Cane
✓ Alabone St. Dunstans	✓ John Colman	✓ Michael Crooke
✓ Alabone the Wall	✓ Katharine Creechards	✓ Michael Gapse
✓ Alphage	✓ Laurens Jerry	✓ Michael Querlins
✓ Andrew Bishford	✓ Laurent Powney	✓ Michael Scott
✓ Andrew Mordenstr.	✓ Leonard Raffelshope	✓ Michael Wood
✓ Andrew Wardrobe	✓ Leonard Ruffelshope	✓ Mildred Broadstreet
✓ Ann Allard	✓ Magne Psid	✓ Mildred Poultrey
✓ Ann Blackfriars	✓ Margaret Lichbury	✓ Molton Acme
✓ Anselme Parfin	✓ Margaret Moses	✓ Mollie Newell
✓ Anthon Parfin	✓ Margaret Newlinbree	✓ Michael Chene
✓ Bartholomew Exchange	✓ Margaret Newlinbree	✓ Michael Chene
✓ Bennet Finch	✓ Mary Abecoch	✓ Clara Garsier
✓ Bennet Garsier	✓ Mary Aldersamben	✓ Clara Jarry
✓ Bennet Pauliford	✓ Mary Aldernury	✓ Clara Morell
✓ Bennet Rerulver	✓ Mary le Bow	✓ Pancras Supreme
✓ Beaufort Billingsgate	✓ Mary Botham	✓ Peter Chene
✓ Clerke Church	✓ Mary Colclarch	✓ Peter Colclarch
✓ Christopher	✓ Mary Colclarch	✓ Peter Paulinbree
✓ Gloucester Chichester	✓ Mary Marg. Billings	✓ Peter Newbry
✓ Hawk Hartshorne	✓ Mary Marg. Oldilins	✓ Steven Garsier
✓ Hockliffe East	✓ Mary Morellaw	✓ Steven Wellbrook
✓ Edmund Lambeart Jr.	✓ Mary Sommers	✓ Susanna
✓ Gherberough	✓ Mary Newing	✓ Thomas Apole
✓ Feth	✓ Mary Wooldrich	✓ Trinity Parfin
✓ Gabrfel Fenchurch	✓ Mary Wooldrich	✓ Venetia de la Poer
✓ George Boscoulains	✓ Margr. Wooldrich	
<i>Certified in the 27. of July 1680. Willm. Wall</i> — 33		
✓ Andrew Nefbor's	✓ St. Benet's Aldgate	✓ Seiviers Southwark
✓ Barbolomew Com	✓ Borochill Blundippe	✓ Sepulchres Parfin
✓ Barbolomew Lefc	✓ Bonaon Wall	✓ Thomas Southwark
✓ Bridges	✓ George Southwark	✓ Trinity Manuris
✓ Cristow Fringe	✓ Gherberough	At the Pelehous
✓ Romph Alderney	✓ Davy Newell	
<i>Certified in the 27. of July 1680. Willm. Wall</i> — 80		
✓ Chirke Church	✓ Leathers Parfin	✓ Mary Whitchappel
✓ Johnes Machaynes	✓ Leonard Berwick	✓ Paul Shadwell
✓ Offeler in the Fields	✓ Margd. Berwick	✓ Rothehille Parfin
✓ James Gherberough	✓ Mary Blakemore	✓ Verney Parfin
✓ Katherine Tower	✓ Mary Newington	
<i>Certified in the 27. of July 1680. Willm. Wall</i> — 76		
✓ Clement Danys	✓ Warde in the Seldas	✓ Margaret Westminster
✓ Paul Gervis Harford	✓ Mary Envoy	✓ Warref at the Pelehous
<i>Certified in the 27. of July 1680. Willm. Wall</i> — 40		
✓ Warde in the Seldas	✓ Warde in the Pelehous	✓ Margaret Westminster
✓ Warref at the Pelehous	✓ Warref at the Pelehous	
		✓ Warref at the Pelehous
		✓ Warref at the Pelehous

The Diseases and Casualties this Week.		
✓ Bortive	✓	✓ Civil
✓ Aged	✓	✓ Fever
✓ Apoplexy	✓	✓ Fox and Small pox
✓ Bursten	✓	✓ Griping in the guts
✓ childebed	✓	✓ Jaundies
✓ Christomes	✓	✓ Impolitume
✓ Confusation	✓	✓ Infants
✓ Convulsion	✓	✓ Kill'd at S. Margaret West-
✓ Dropzie	✓	✓ minister
✓ Drowned	✓	✓ Rickets
✓ one at S. Katharine Tower, one at S. Paul	✓	✓ Rising of the Lights
✓ Shadwe, and two at Stepny	✓	✓ St. Anthony's Fire
		✓ spotted Fever
		✓ stillborn
		✓ stopping in the Stomach
		✓ surfeit
		✓ Teeth
		✓ Thrush
		✓ Tissek
		✓ Wind
<i>Males — 168</i>		
✓ Bursten Females — 121	✓ Bursten Females — 162	✓ Males — 174
✓ in all — 249	✓ in all — 336	✓ Females — 162
<i>Plague — 336</i>		
<i>Decreased in the Burials this week — 52</i>		
<i>Parties clear of the Plague — 132</i>		
<i>Parties Infected — 0</i>		
<i>Articles of Bread set forth by Order of the Lord Mayor and Court of Aldermen.</i>		
<i>A Loaf of Wheaten Bread to contain Ten Ounces and an half, and three halfpennies, White Loaves the like weight. And Mockbold Bread made of Wheat to contain double the weight of White Bread.</i>		

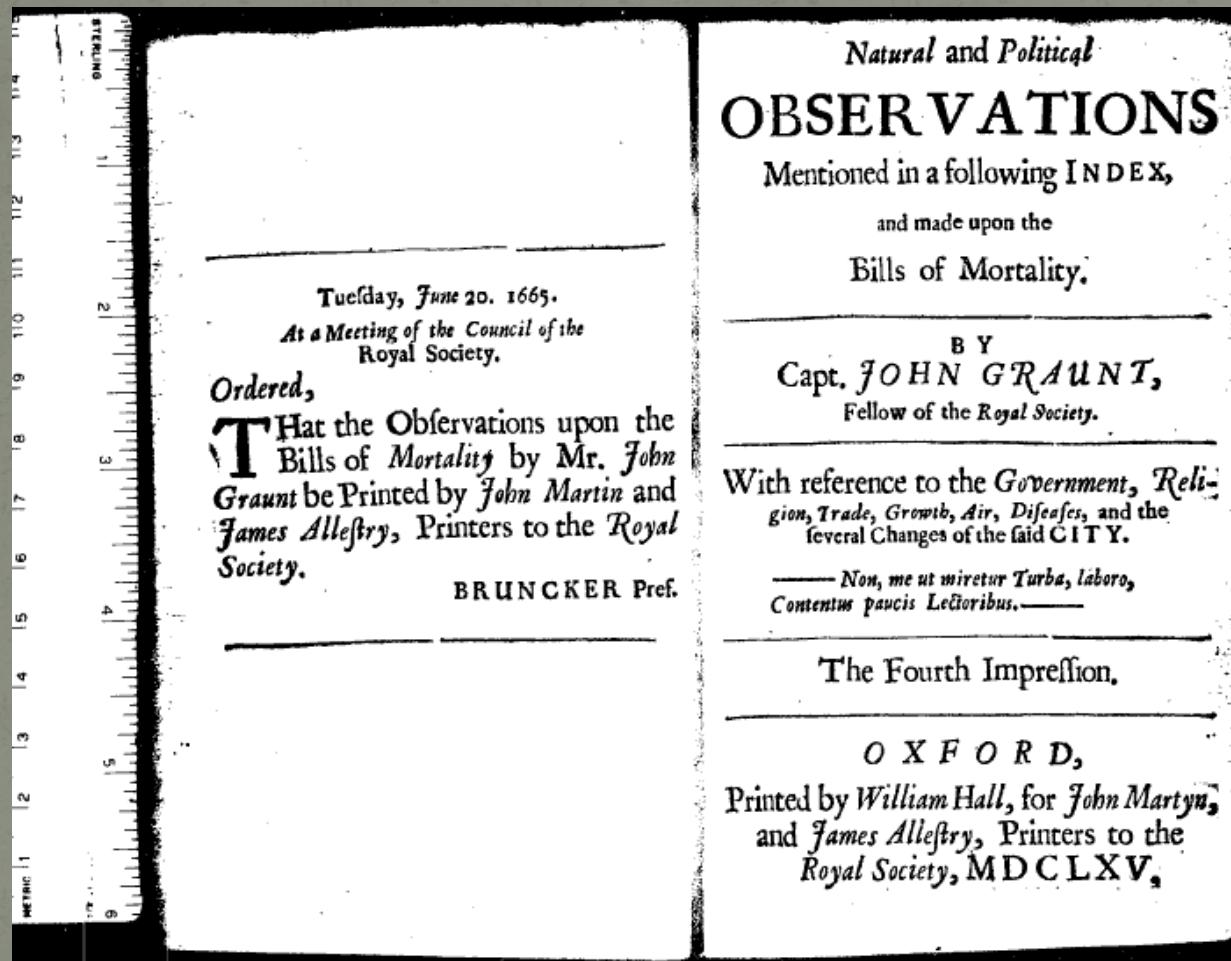
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November 5, 1665: “Up, and after being trimmed, by boate to the Cockepitt, where I heard the Duke of Albemarle’s chaplain make a simple sermon. Among other things, reproaching the imperfection of humane learning, he cried – “All our physicians can’t tell what an ague is, and all our Arithmetique is not able to number the days of a man” – which, God knows, is not the fault of arithmetique but that our understandings reach not that thing.”

---

Samuel Pepys, *The Diary of Samuel Pepys*, eds. Robert Latham and William Matthews (Berkeley: University of California Press, 1972), 6:289.

# Our understandings reach not that thing... yet!



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# Bills of Mortality in the Internet Age

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**Bills of mortality**

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**History [edit]**

Bills of mortality were produced intermittently in the several parishes of the City of London during outbreaks of plague. The first bill of mortality is believed to date from November 1532.<sup>[1]</sup> The first regular weekly collection and publishing of the number of burials in the



An annual return for 1665

- epidemic years in databases such as EEBO, State Papers Online
- late seventeenth & early eighteenth century annual bills in ECCO
- select bills in Folger Shakespeare Library's LUNA Digital Image Collection

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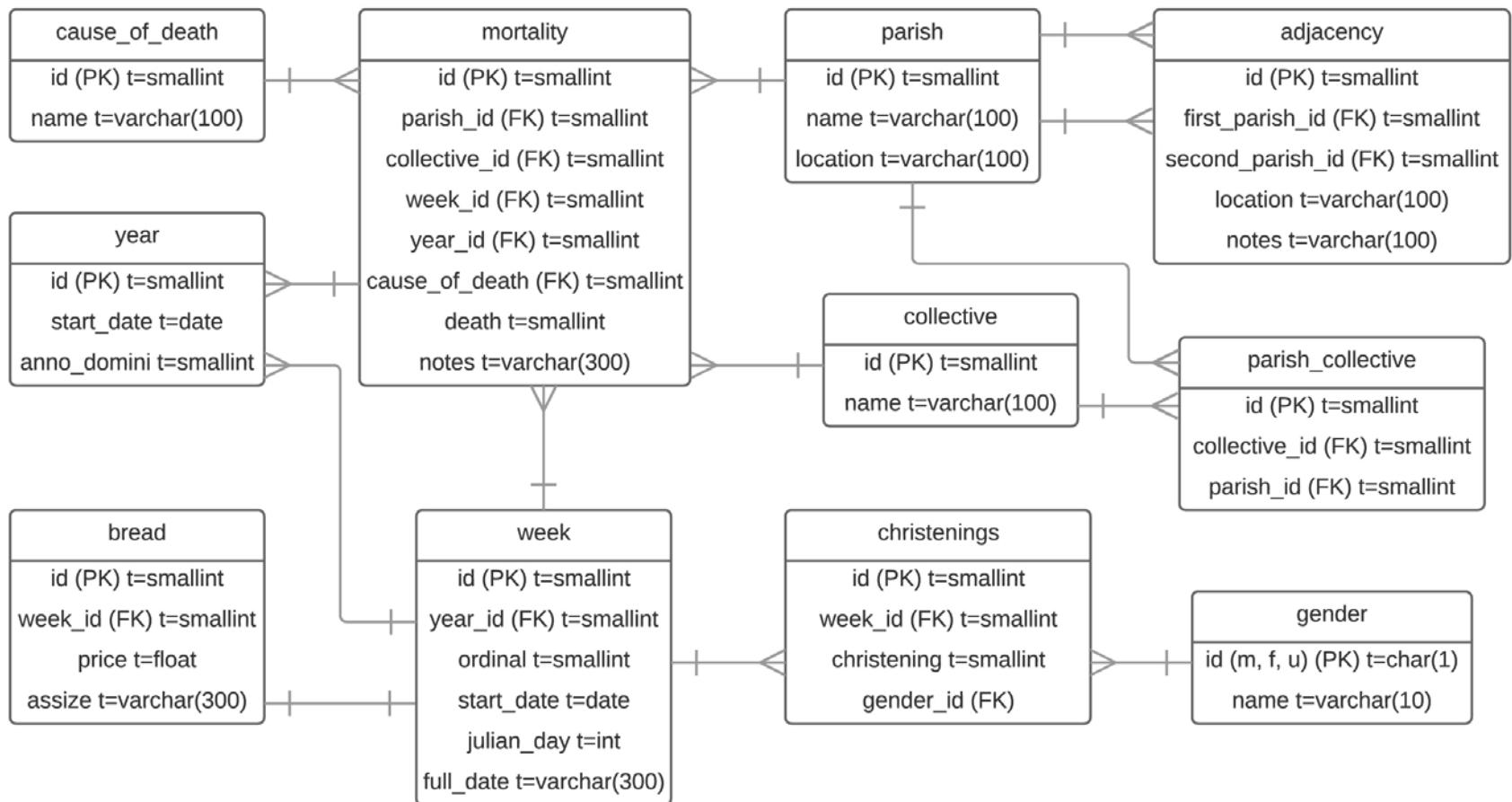
# The Data

- 10,000+ images from the Wellcome Library, Guildhall Library, British Library, and National Archives (Kew, London)
- theoretically transcribing all *quantitative* data
- in reality, tight bindings, damaged paper, smeared ink obscure some data

A photograph of an open historical ledger or account book. The left page is titled "The Diseases and Casualties this Week". It lists various diseases and conditions with their corresponding numbers. The right page shows a list of names, likely individuals buried, with their numbers. A person's finger points to the number 179 at the bottom of the left page, which is part of a larger total.

The Diseases and Casualties this Week	
1	Catarrh
2	Chapping In the Guts
3	Bladder
4	Bladnessulbosis
5	Bloough
6	Jaundie
7	Low-tallen
8	Hemphame
9	Infants
10	Itch
11	King-Evil
12	Leprofie
13	Lethangy
14	Liver-grown
15	Lunatick
16	Mazrim
17	Meallies
18	Mother
19	Noli me tangere
20	Overldid
21	Palse
22	Plague
23	Plunie
24	Purples
25	Quinsie
26	Rheumatifin
27	Rickets
28	Wales
29	Females
30	In all
31	Burials this Week
32	Worms
33	88
34	91
35	179
36	Plague
37	18

# The Database



# Sharing the Database

```
CREATE TABLE parish (id SMALLINT UNSIGNED NOT NULL AUTO_INCREMENT PRIMARY KEY, name VARCHAR(100), start_year DATE, end_year DATE);
LOAD DATA LOCAL INFILE '/parishes.csv' INTO TABLE parish FIELDS TERMINATED BY ',' LINES TERMINATED BY '\n';

CREATE TABLE collective (id SMALLINT UNSIGNED NOT NULL AUTO_INCREMENT PRIMARY KEY, name VARCHAR(100));
INSERT INTO collective VALUES (1, 'Within the Walls');
INSERT INTO collective VALUES (2, 'Without the Walls');
INSERT INTO collective VALUES (3, 'Middlesex and Surrey');
INSERT INTO collective VALUES (4, 'Westminster');
INSERT INTO collective VALUES (5, 'All');

CREATE TABLE parish_collective (id SMALLINT UNSIGNED NOT NULL AUTO_INCREMENT PRIMARY KEY, collective_id SMALLINT UNSIGNED, parish_id SMALLINT UNSIGNED);
LOAD DATA LOCAL INFILE '/parishes_collective.csv' INTO TABLE parish_collective FIELDS TERMINATED BY ',' LINES TERMINATED BY '\n';
```

# 1665 and All That

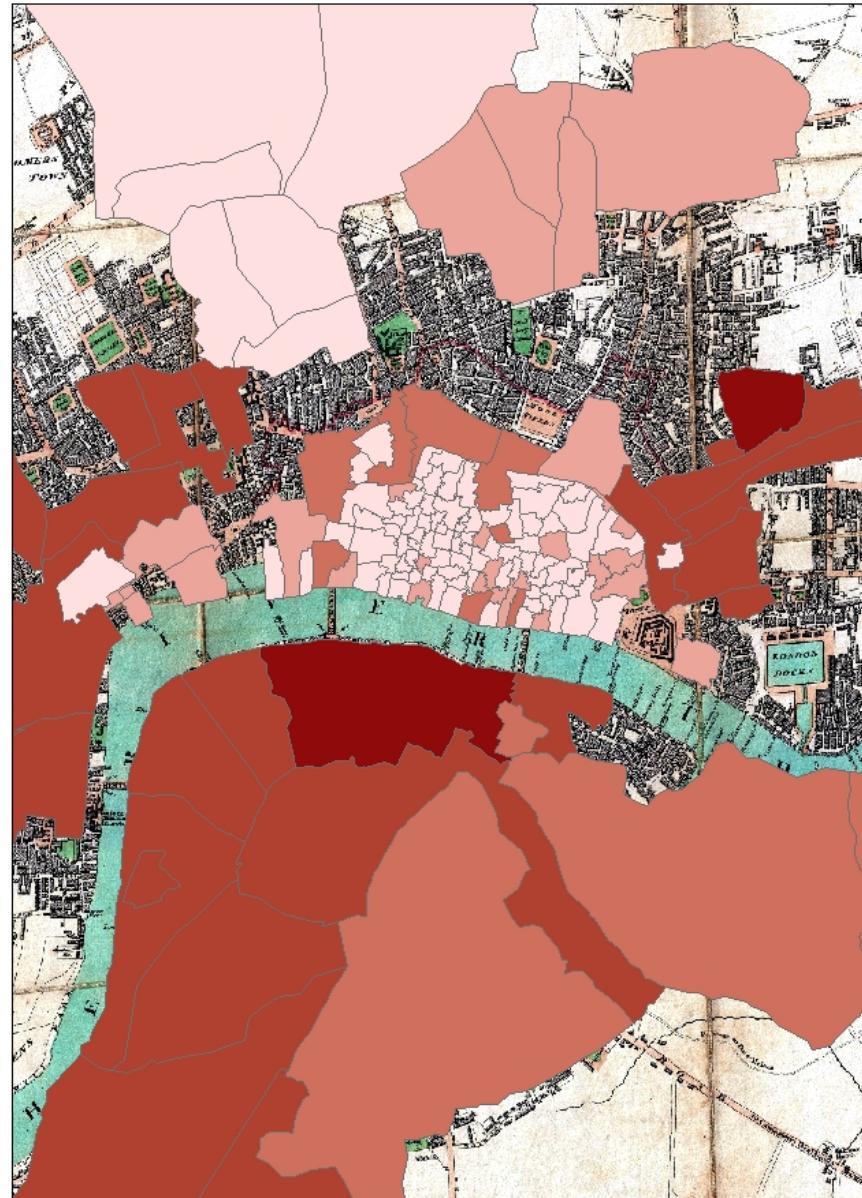


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# London Plague Mortality 1666

## Legend

- 0
- 1
- 2-3
- 4-9
- 10+

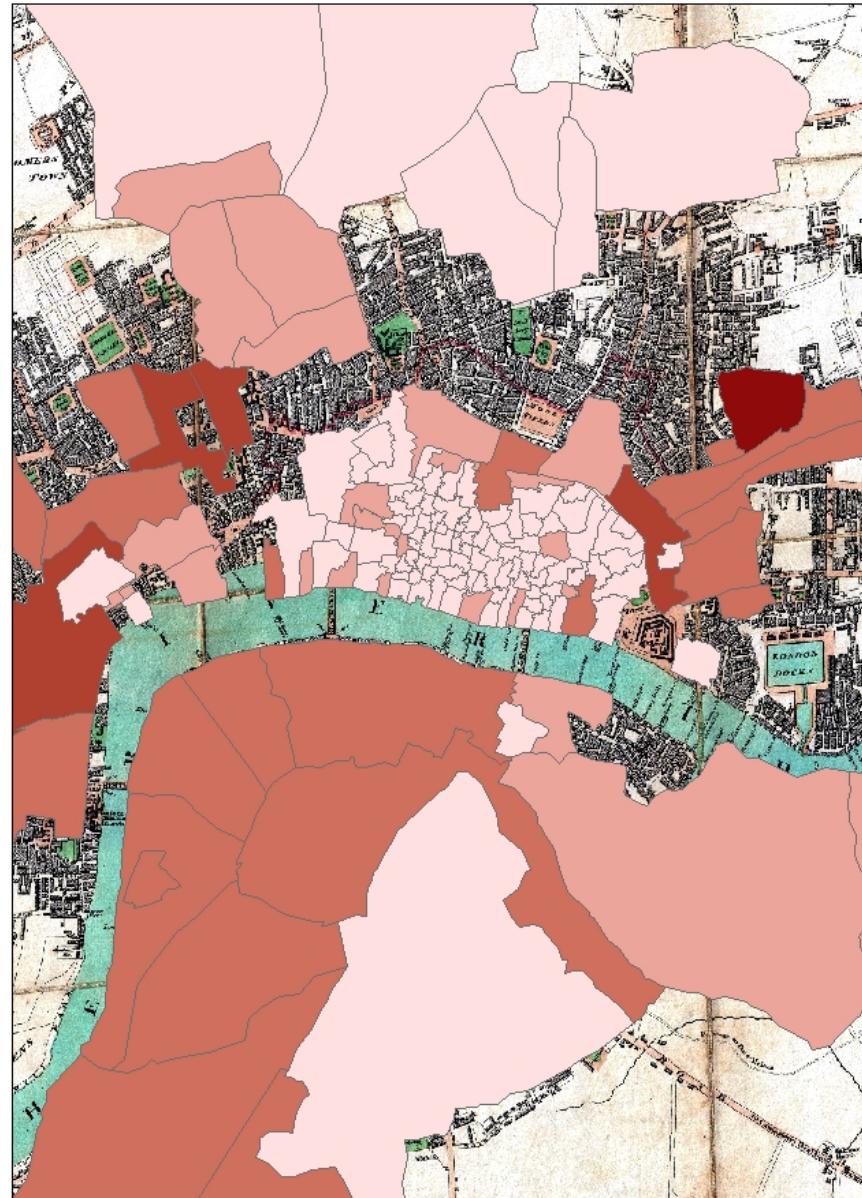


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# London Plague Mortality 1666

## Legend

- 0
- 1
- 2-3
- 4-9
- 10+



@jotis13

# London Plague Mortality 1666

## Legend

- 0
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- 4-9
- 10+

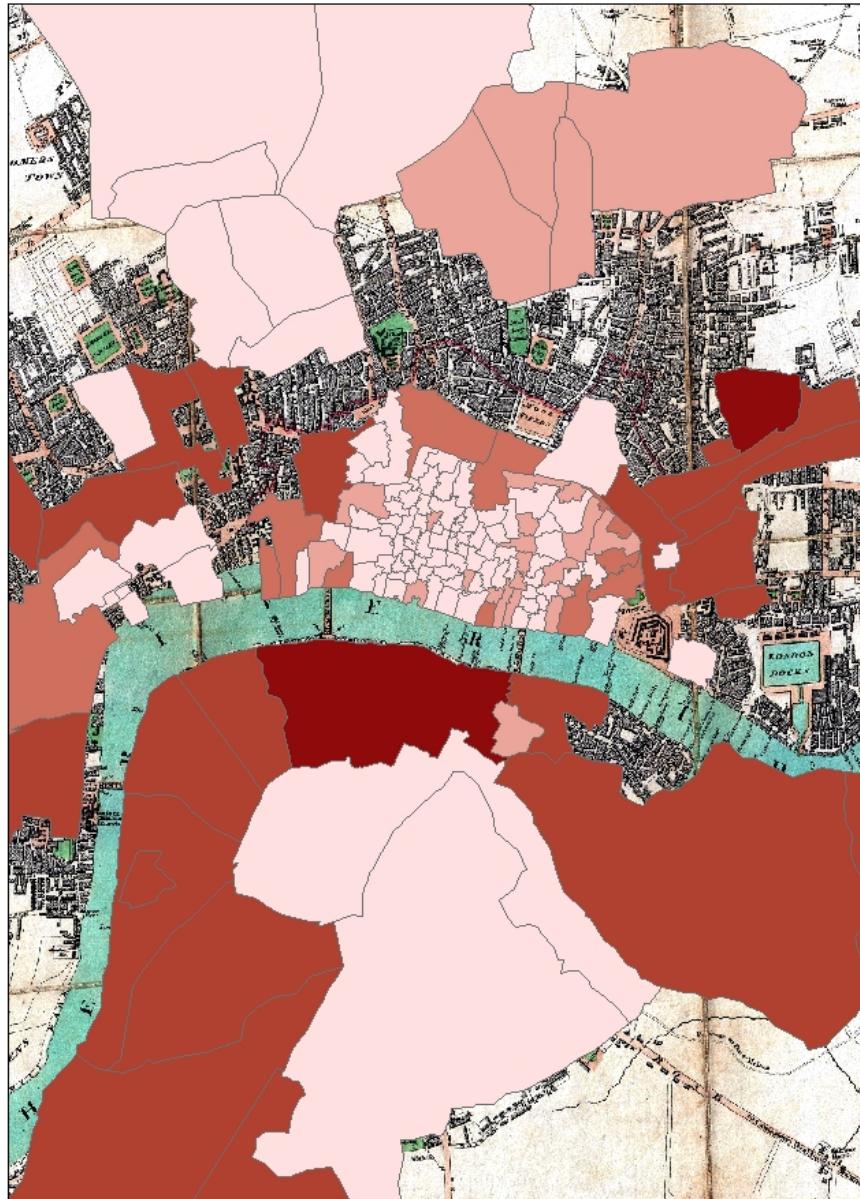


@jotis13

# London Plague Mortality 1666

## Legend

- 0
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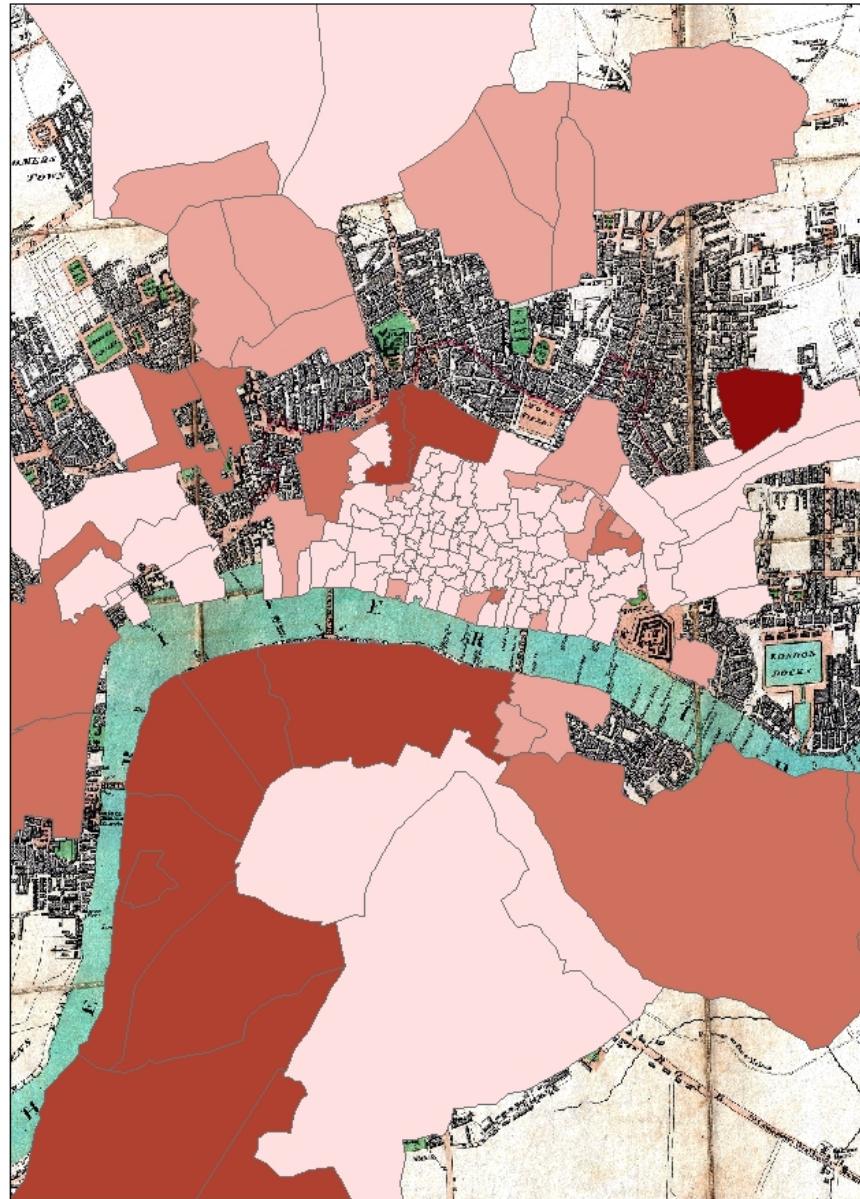


@jotis13

# London Plague Mortality 1666

## Legend

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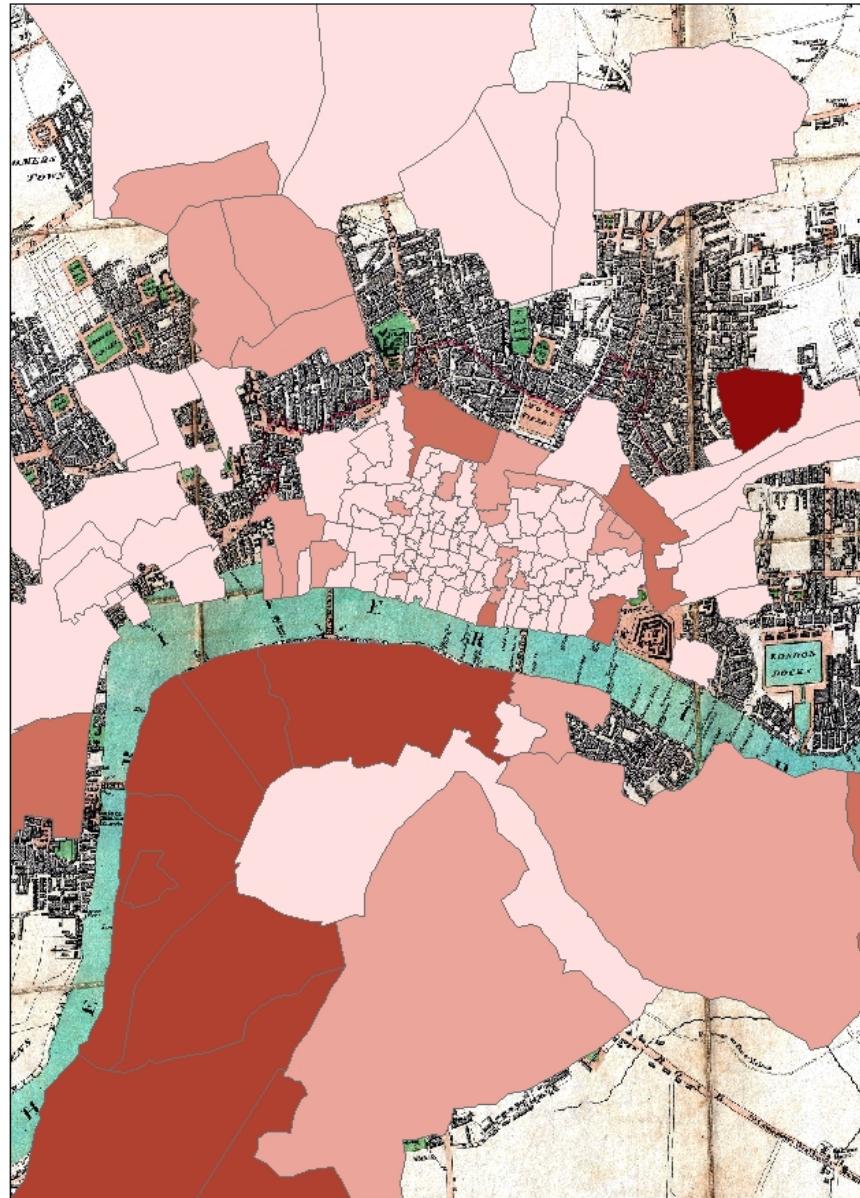


@jotis13

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## Legend

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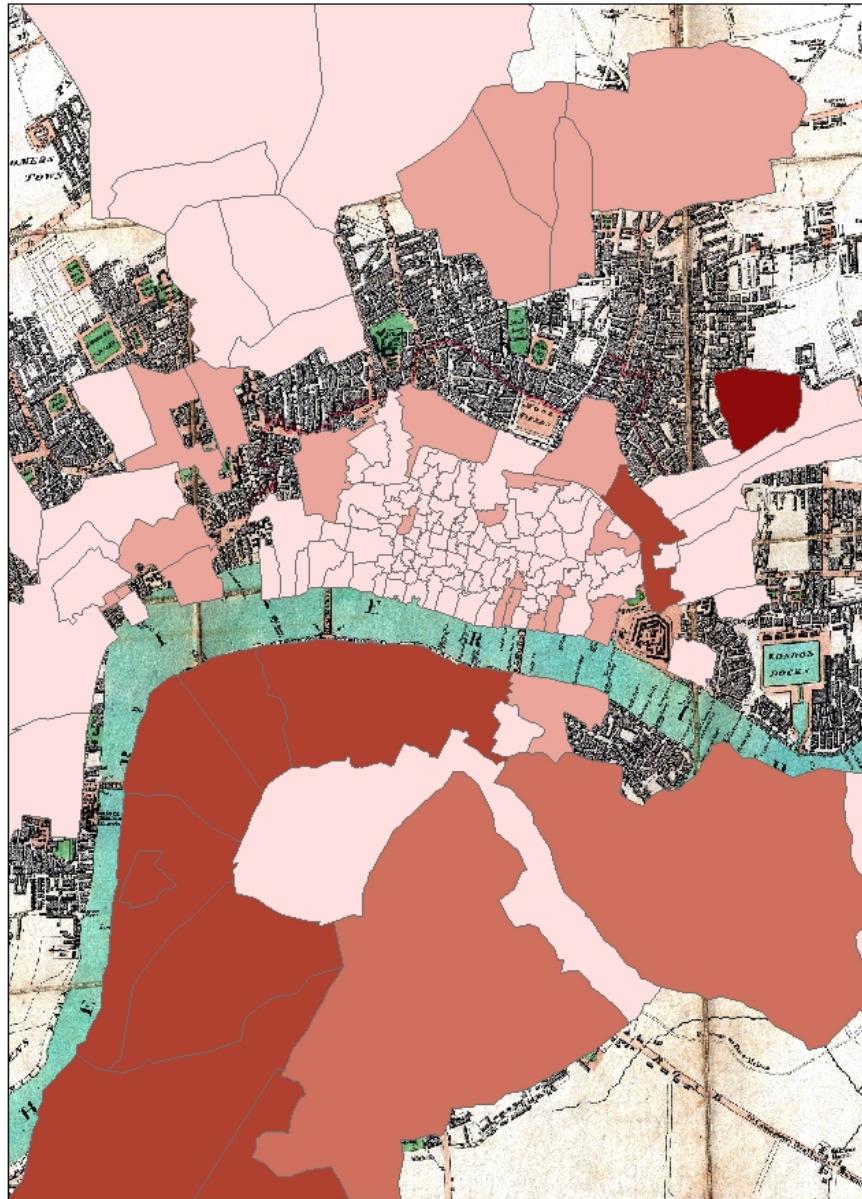


@jotis13

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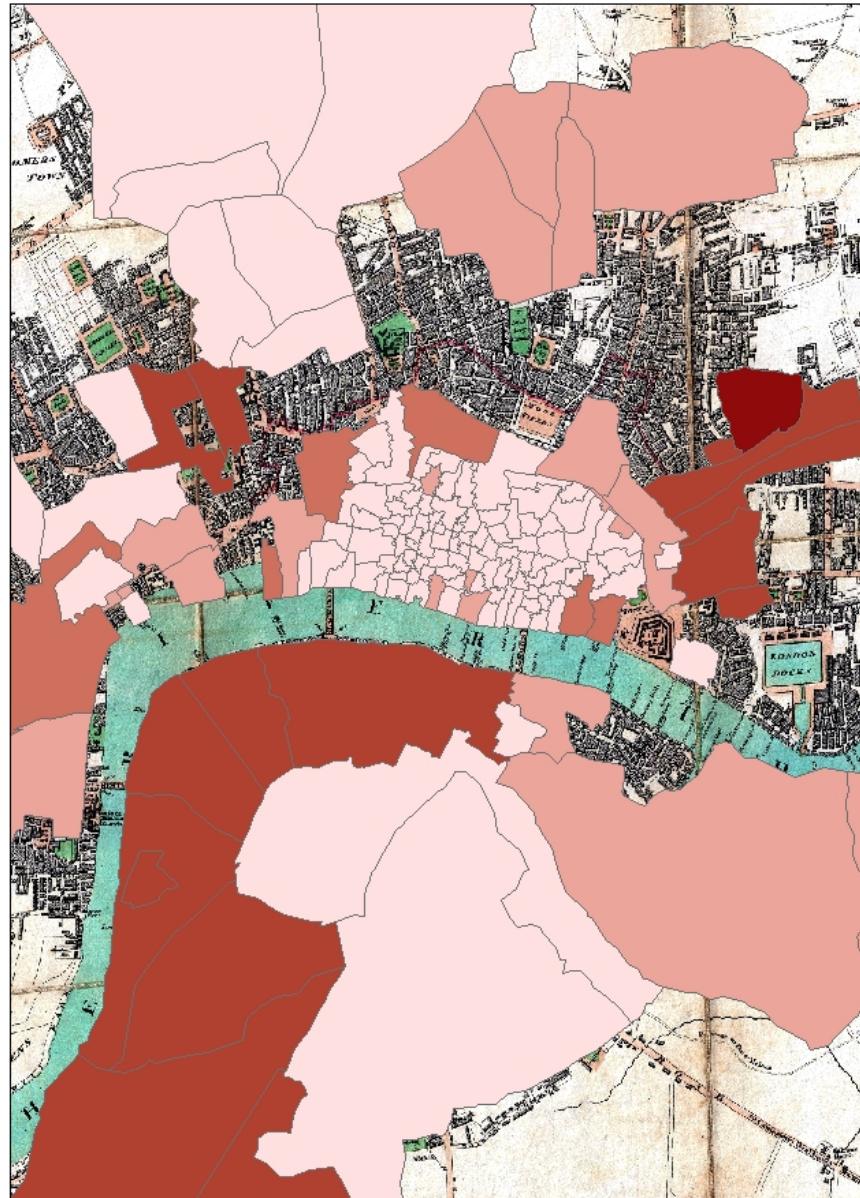


@jotis13

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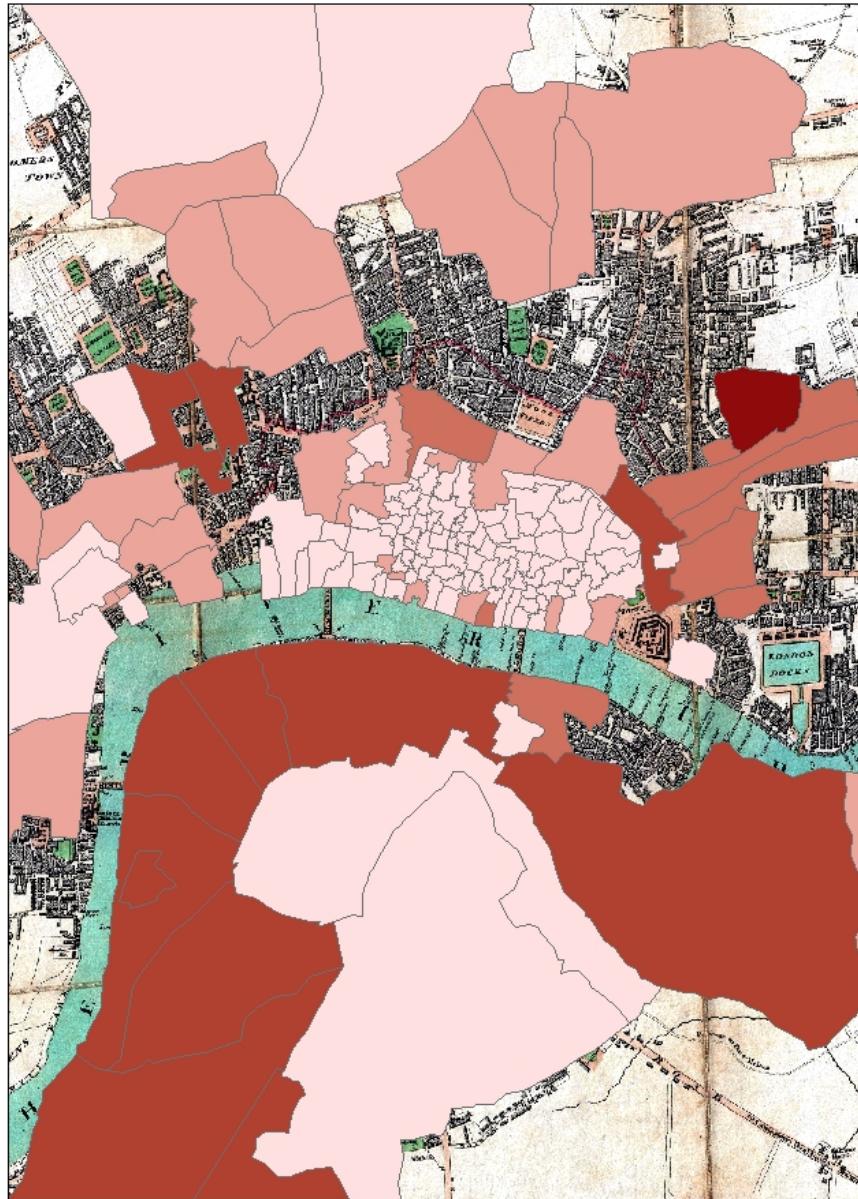


@jotis13

# London Plague Mortality 1666

## Legend

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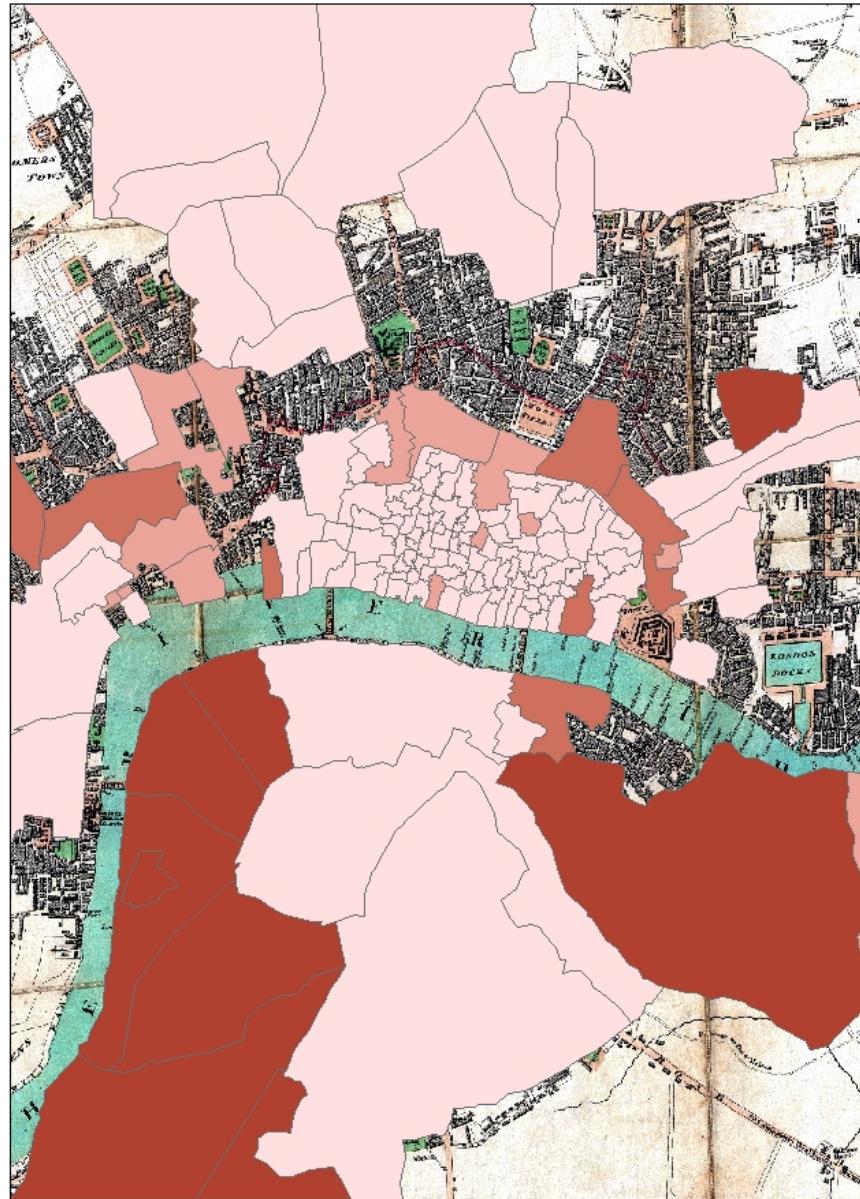


@jotis13

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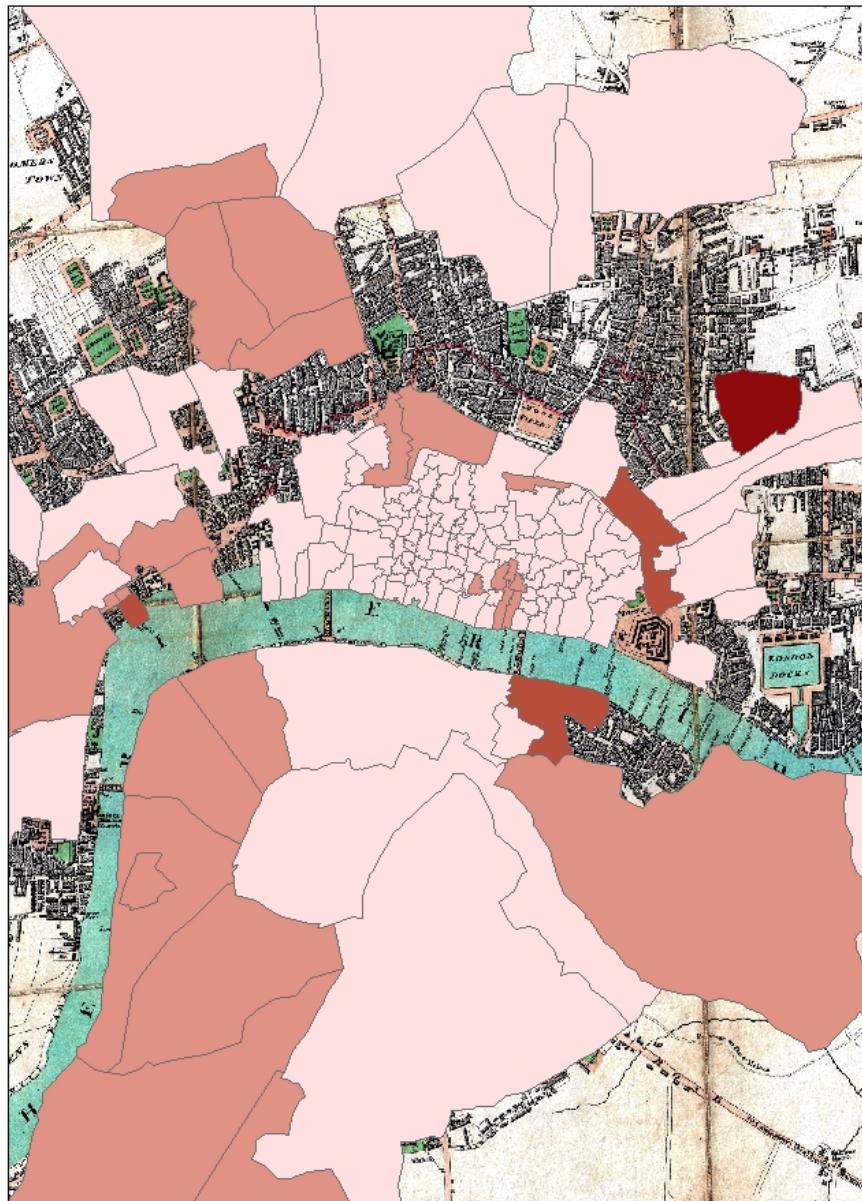


@jotis13

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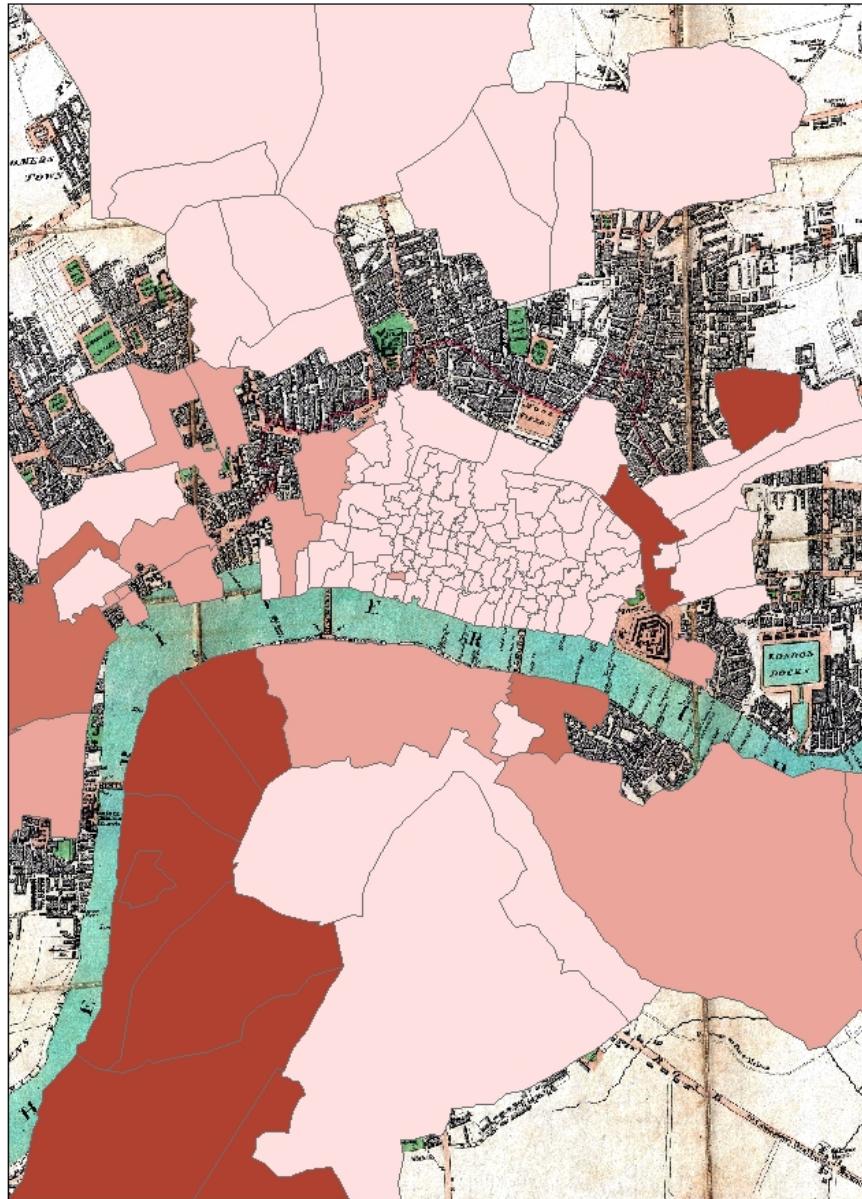


@jotis13

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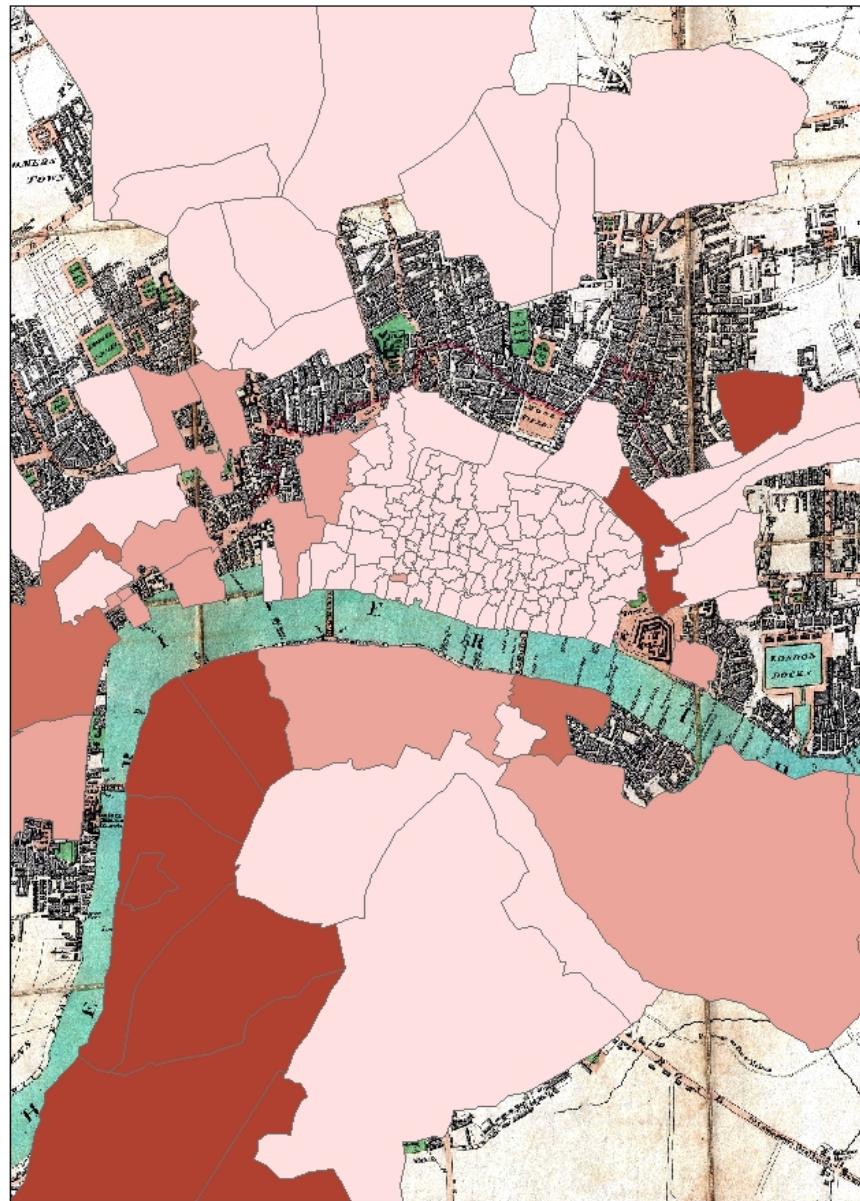


@jotis13

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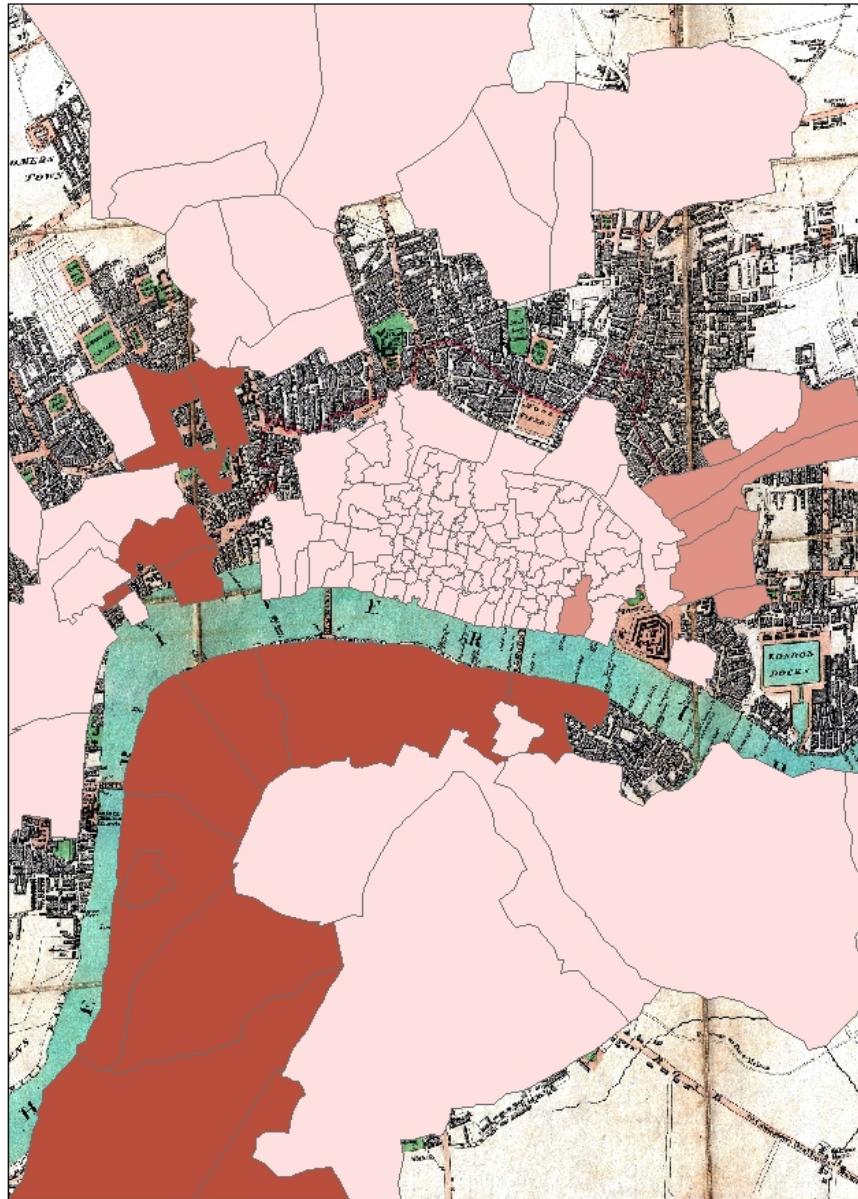


@jotis13

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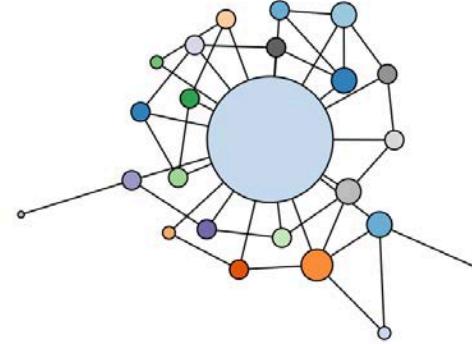
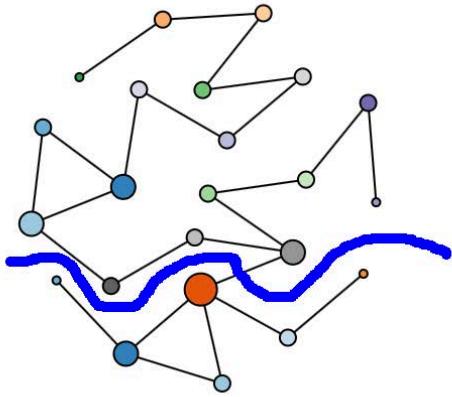
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November 20, 1666: “[T]hen to church, it being thanksgiving-day for the cessation of the plague; but, Lord! How the towne do say that it is hastened before the plague is quite over, *there dying some people still.*” [emphasis mine]

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Samuel Pepys, *The Diary of Samuel Pepys*, eds. Robert Latham and William Matthews (Berkeley: University of California Press, 1972).

# Network Analysis



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# The Future of *Death by Numbers*

- <https://github.com/jmotis/billsofmortality>
- first phase
  - database construction code
  - initial subset of transcribed bills (annuals, ~10 years)
- second phase
  - shape files for parishes over time
  - network node/edge tables for mortality over time
- third phase
  - more subsets of transcribed bills (~10 years at a time)
- fourth phase
  - graphical user interface for interacting with database