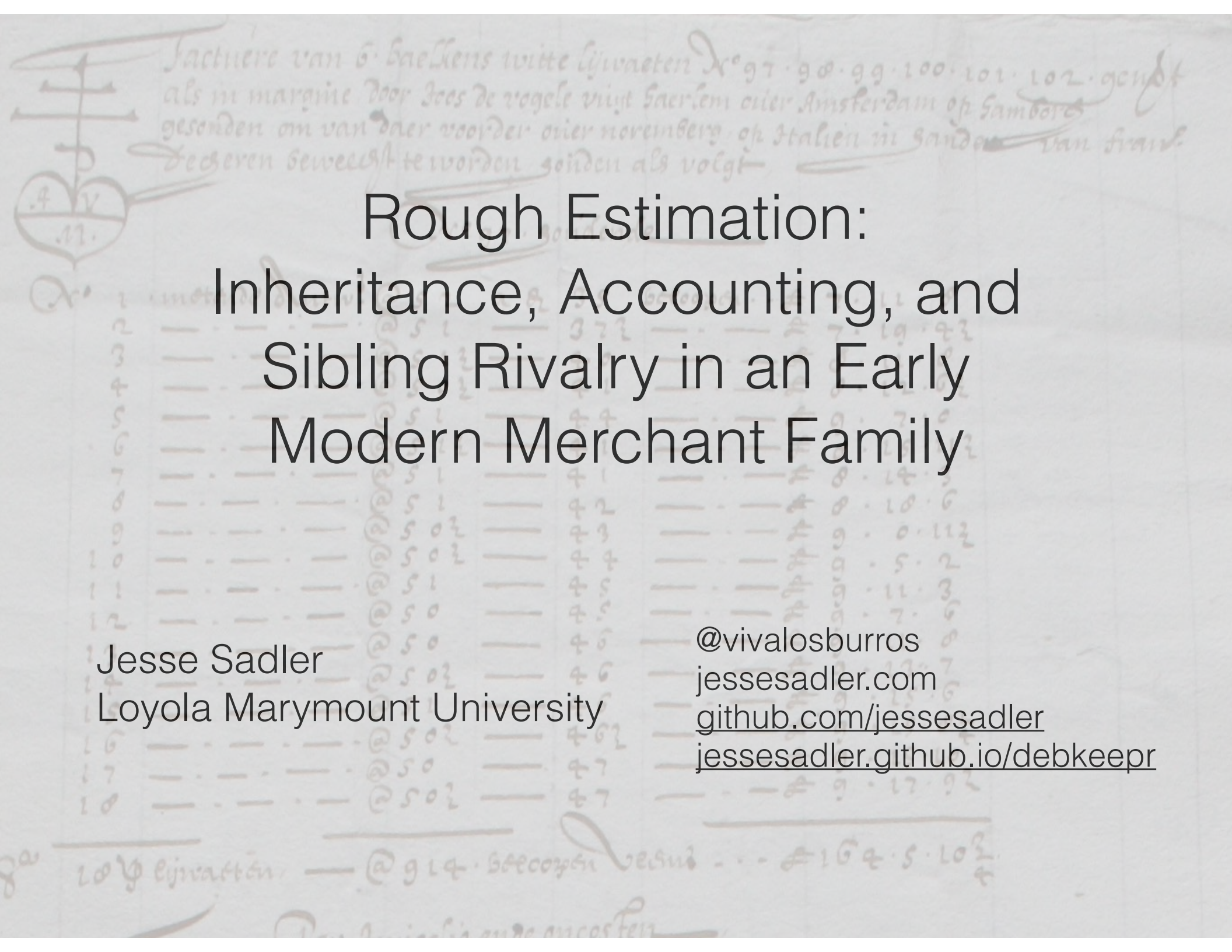

Rough Estimation: Inheritance, Accounting, and Sibling Rivalry in an Early Modern Merchant Family

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jessesadler.com
github.com/jessesadler
jessesadler.github.io/debkeepr

Difficulties with non-decimal currencies

- One value is represented by three separate units.
- The solidus and denarius units have non-decimal bases.
- The bases differed by currency.

Compound unit arithmetic

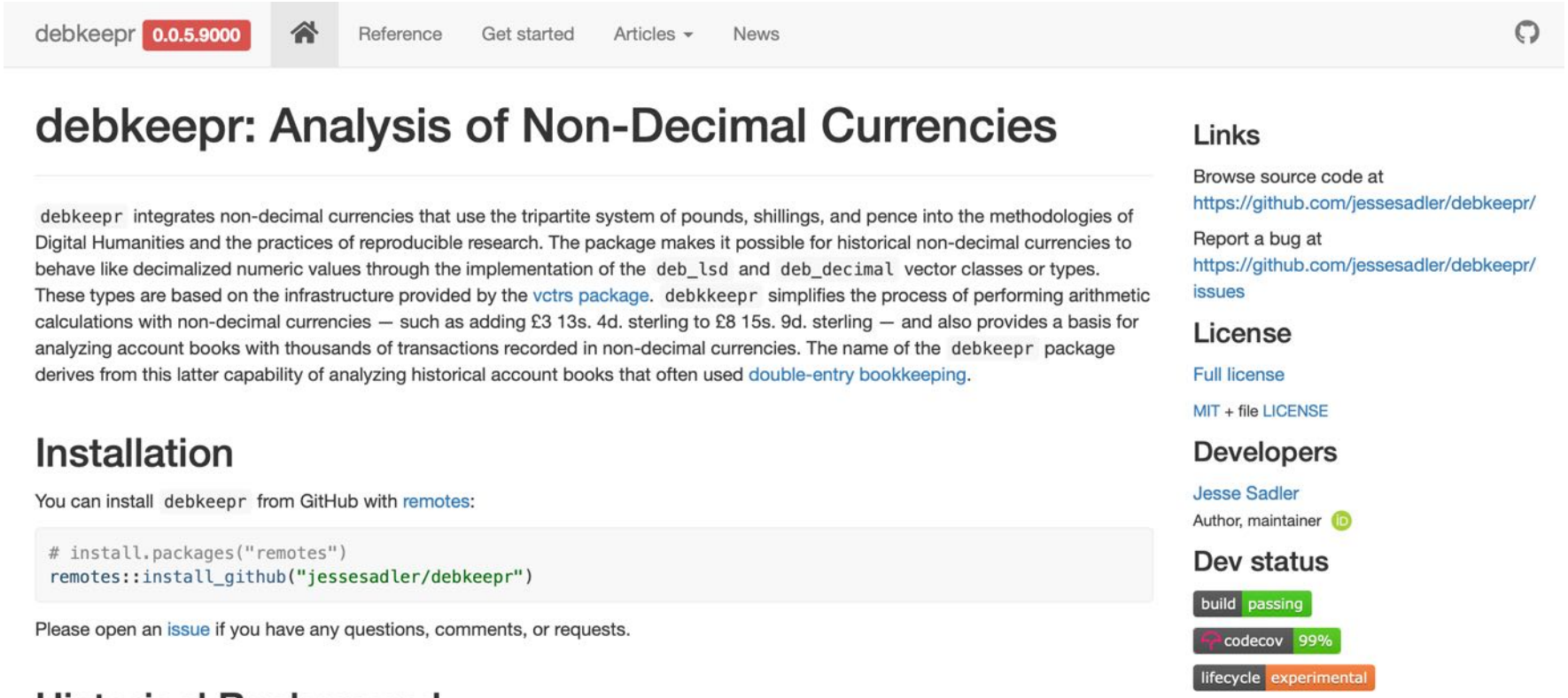
	£	s.	d.
	28	15	8
	32	8	11
	54	18	7
	18	12	9
Unit total	132	53	35

Normalization

Carried forward	2	2	-
Divide by base	-	55 / 20	35 / 12
Remainder	-	15	11
Answer	**£134**	**15s.**	**11d.**

debkeepr: Analysis of Non-Decimal Currencies in R

jessesadler.github.io/debkeepr/



Normalization

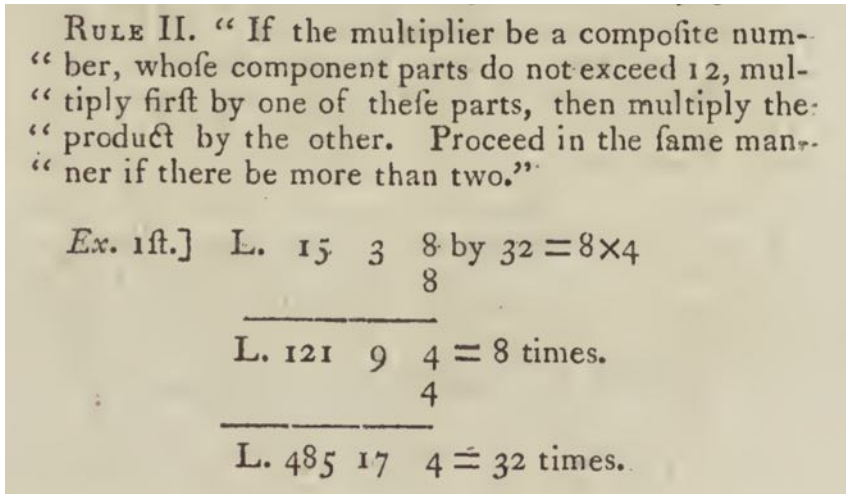
```
> library(debkeepr)
> deb_normalize(c(132, 53, 35))
<deb_lsd[1]>
[1] 134:15s:11d
# Bases: 20s 12d

> deb_normalize(c(132, 53, 35),
    bases = c(30, 18))
<deb_lsd[1]>
[1] 133:24s:17d
# Bases: 30s 18d

> deb_lsd(15, 3, 8) * 32
<deb_lsd[1]>
[1] 485:17s:4d
# Bases: 20s 12d
```

Compound unit

	£	s.	d.
	28	15	8
	32	8	11
	54	18	7
	18	12	9
Unit total	132	53	35
Carried	2	2	-
Divide by	-	55 / 20	35 / 12
Remainder	-	15	11
Answer	**£134**	**15s.**	**11d.**



RULE II. "If the multiplier be a compoſite number, whoſe component parts do not exceed 12, multiply firſt by one of theſe parts, then multiply the product by the other. Proceed in the ſame manner if there be more than two."

Ex. 1ſt.] L. 15 3 8 by 32 = 8×4
8

L. 121 9 4 = 8 times.
4

L. 485 17 4 = 32 times.

id	credit	debit	date	l	s	d	journal	ledger
1	2	1	16330101	1000	15	7	1	1/1
2	2	3	16330101	477	10	0	1	1/1
3	2	4	16330101	55	0	6	1	2/1
4	2	5	16330101	240	0	0	1	2/1
5	2	6	16330101	229	0	0	1	2/1
6	2	8	16330101	3	17	8	1	3/1
7	7	2	16330101	150	0	0	1	1/2
8	9	11	16330104	360	0	0	1	4/3
9	1	9	16330104	144	0	0	2	3/1
10	5	10	16330104	120	0	0	2	3/2
11	13	12	16330109	180	0	0	2	4/4
12	1	13	16330109	120	0	0	2	4/1
13	14	7	16330109	40	0	0	2	2/5
14	5	15	16330103	120	0	0	2	5/2
15	16	15	16330103	3	4	0	2	5/5
16	3	12	16330103	270	0	0	2	4/1
17	14	7	16330103	90	0	0	2	2/5
18	18	17	16330117	566	13	4	3	5/6
19	19	18	16330117	340	0	0	3	6/6
20	13	20	16330123	564	1	5	3	6/4
21	23	21	16330123	2	11	11	3	7/7
22	19	18	16330123	225	12	7	3	6/6

Entering data into a spreadsheet

```
deb_gather_lsd(data)
```

```
# A tibble: 177 x 5
      id credit debit date                lsd
   <dbl>  <dbl> <dbl> <date>      <lsd[20s:12d]>
 1     1      2     1 1633-01-01    1000:15s:7d
 2     2      2     3 1633-01-01     477:10s:0d
 3     3      2     4 1633-01-01       55:0s:6d
 4     4      2     5 1633-01-01      240:0s:0d
 5     5      2     6 1633-01-01      229:0s:0d
 6     6      2     8 1633-01-01       3:17s:8d
 7     7      7     2 1633-01-01      150:0s:0d
 8     8      9    11 1633-01-04      360:0s:0d
 9     9      1     9 1633-01-04      144:0s:0d
10    10      5    10 1633-01-04      120:0s:0d
# … with 167 more rows
```

Links

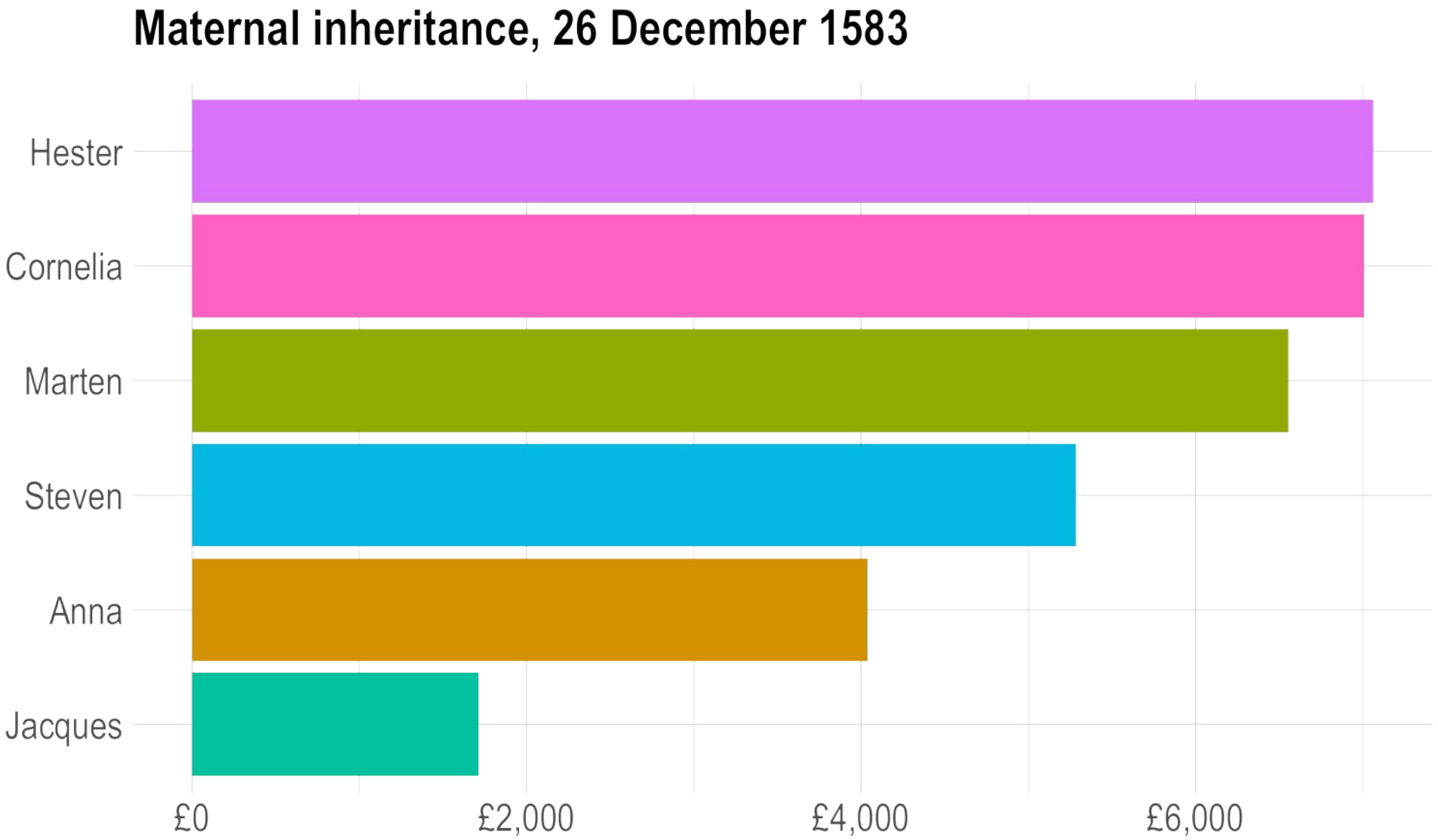
- debkeepr package documentation
  - https://jessesadler.github.io/debkeepr/
- Code for visualizations
  - https://github.com/jessesadler/thwg-2021
- Slides
  - https://jessesadler.com/slides/bafa2022.pdf

Jan della Faille de Oude

(c. 1515–1582)

Trade network of Jan de Oude
1558–1582

- Executors
  - **Jan** (c. 1542–1618): Eldest but not successor to his father.
  - **Marten** (c. 1544–1620): Chosen as his father's primary successor.
  - **Jacques** (c. 1549–1615): Rival to Marten. Moved to Haarlem in 1584.
- Troublesome sons
  - **Carlo** (c. 1546–1617): Constant source of trouble for his siblings.
  - **Steven** (c. 1550–1621): Had two marriages to servants annulled.
- Daughters
  - **Anna** (c. 1543–1622): Married Robert van Eeckeren, associate of her father.
  - **Maria** (1555–1578): Married and had three children before her early death.
  - **Hester** (c. 1558–1643): Married Daniel van der Meulen. Left Antwerp in 1584.
  - **Cornelia** (c. 1563–1582): Died shortly after her father in 1582.


Maternal inheritance, 26 December 1583
Hester
Cornelia
Marten
Steven
Anna
Jacques
£0
£2,000
£4,000
£6,000

- Executors
  - **Jan** (c. 1542–1618): Eldest but not successor to his father.
  - **Marten** (c. 1544–1620): Chosen as his father's primary successor.
  - **Jacques** (c. 1549–1615): Rival to Marten. Moved to Haarlem in 1584.
- Troublesome sons
  - **Carlo** (c. 1546–1617): Constant source of trouble for his siblings.
  - **Steven** (c. 1550–1621): Had two marriages to servants annulled.
- Daughters
  - **Anna** (c. 1543–1622): Married Robert van Eeckeren, associate of her father.
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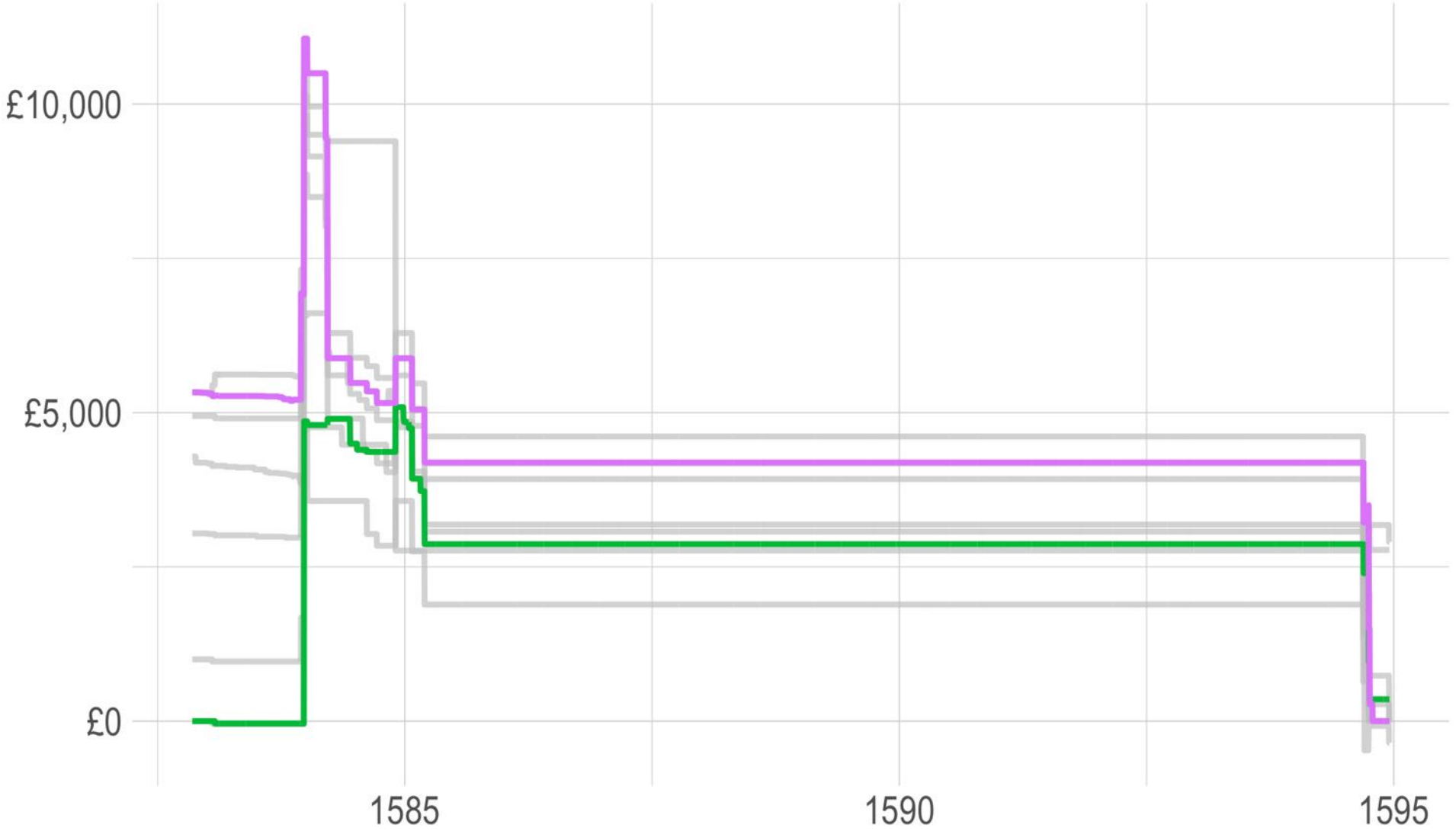
  - **Hester** (c. 1558–1643): Married Daniel van der Meulen. Left Antwerp in 1584.
  - **Cornelia** (c. 1563–1582): Died shortly after her father in 1582.

Account book of the estate of Jan de Oude

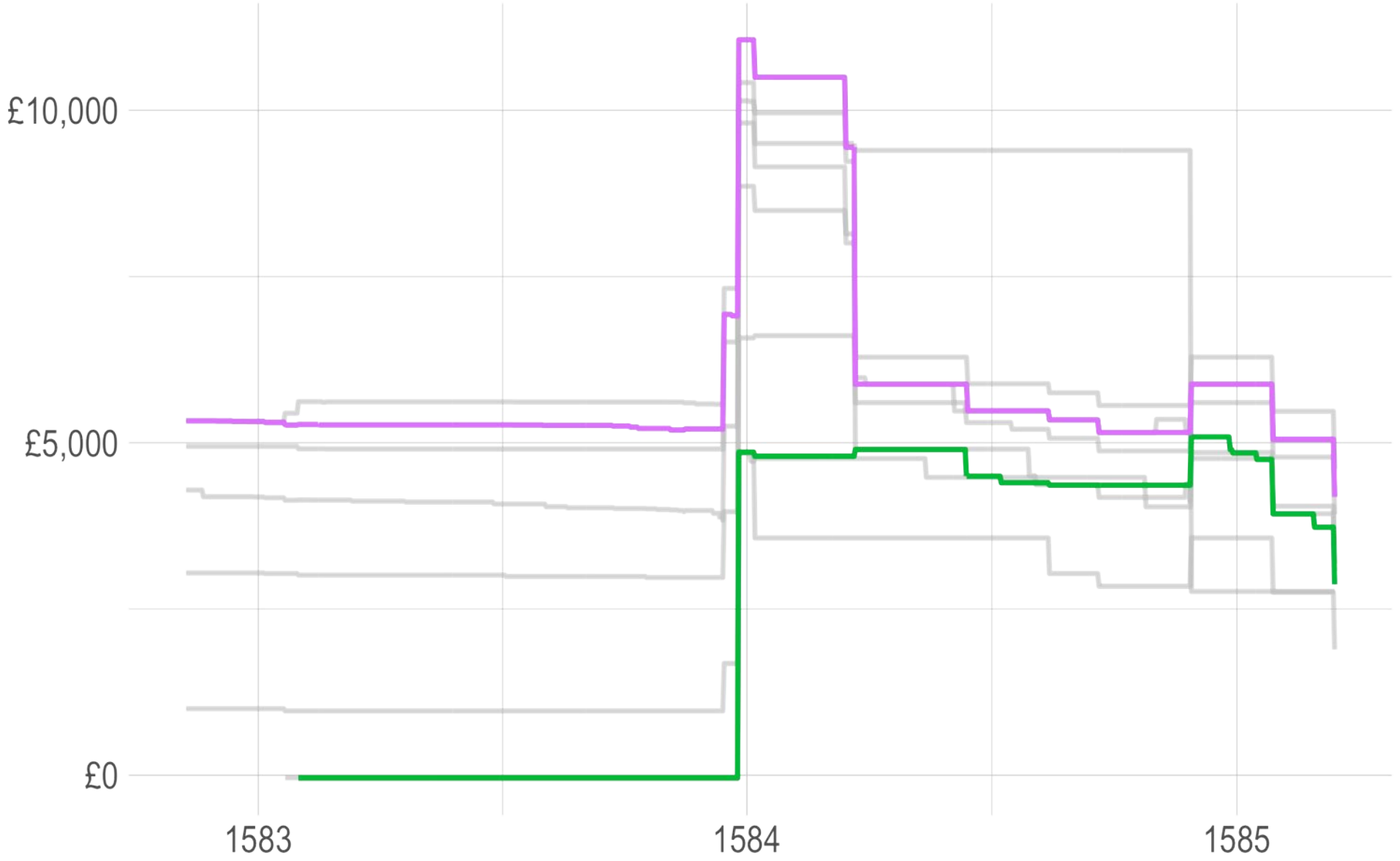
Inheritance of the heirs of Jan de Oude, 1582–1594

Highlighting the inheritance of Hester and Carlo



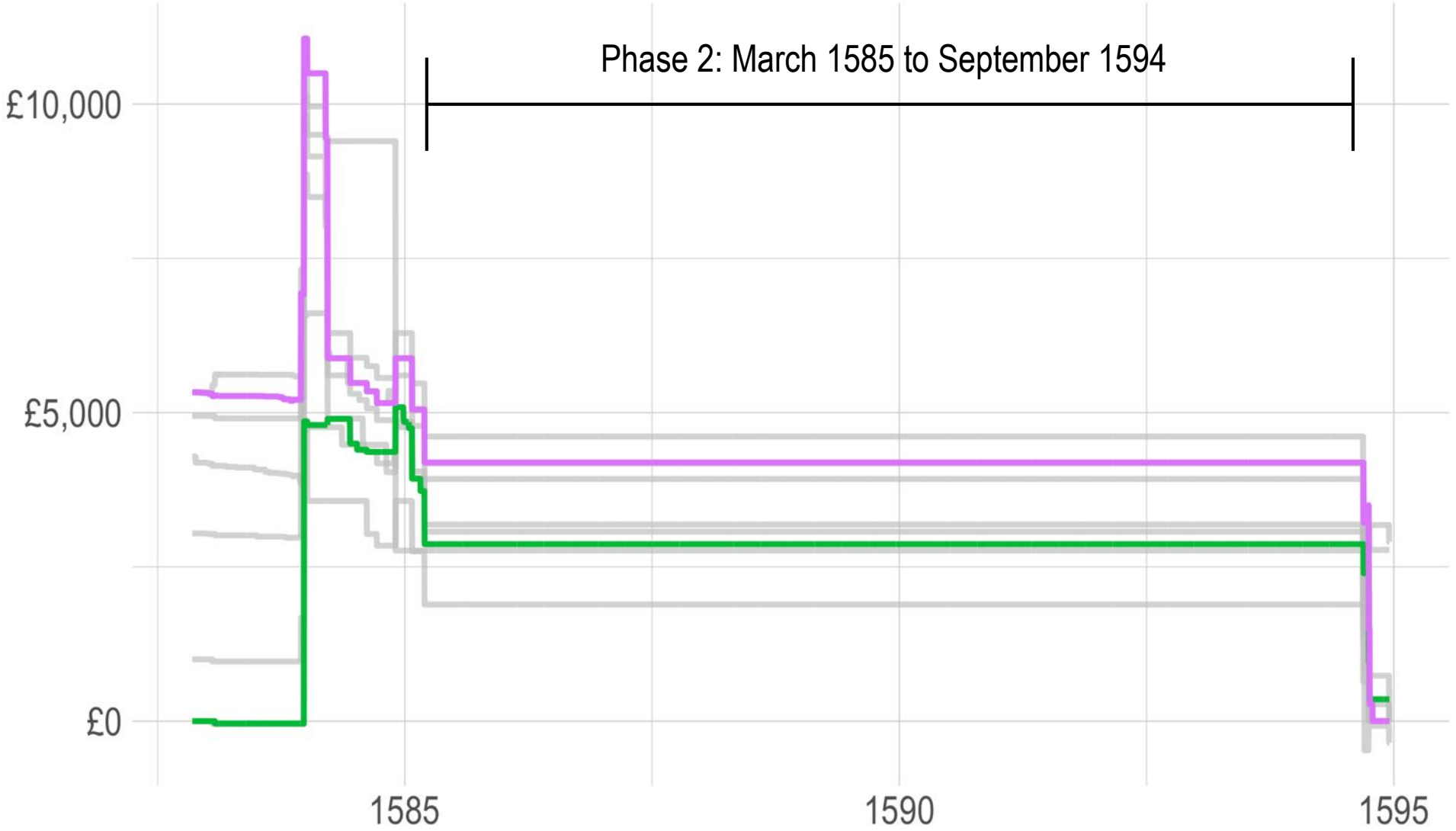
Phase 1: Novemeber 1582 to March 1585

Highlighting the inheritance of Hester and Carlo



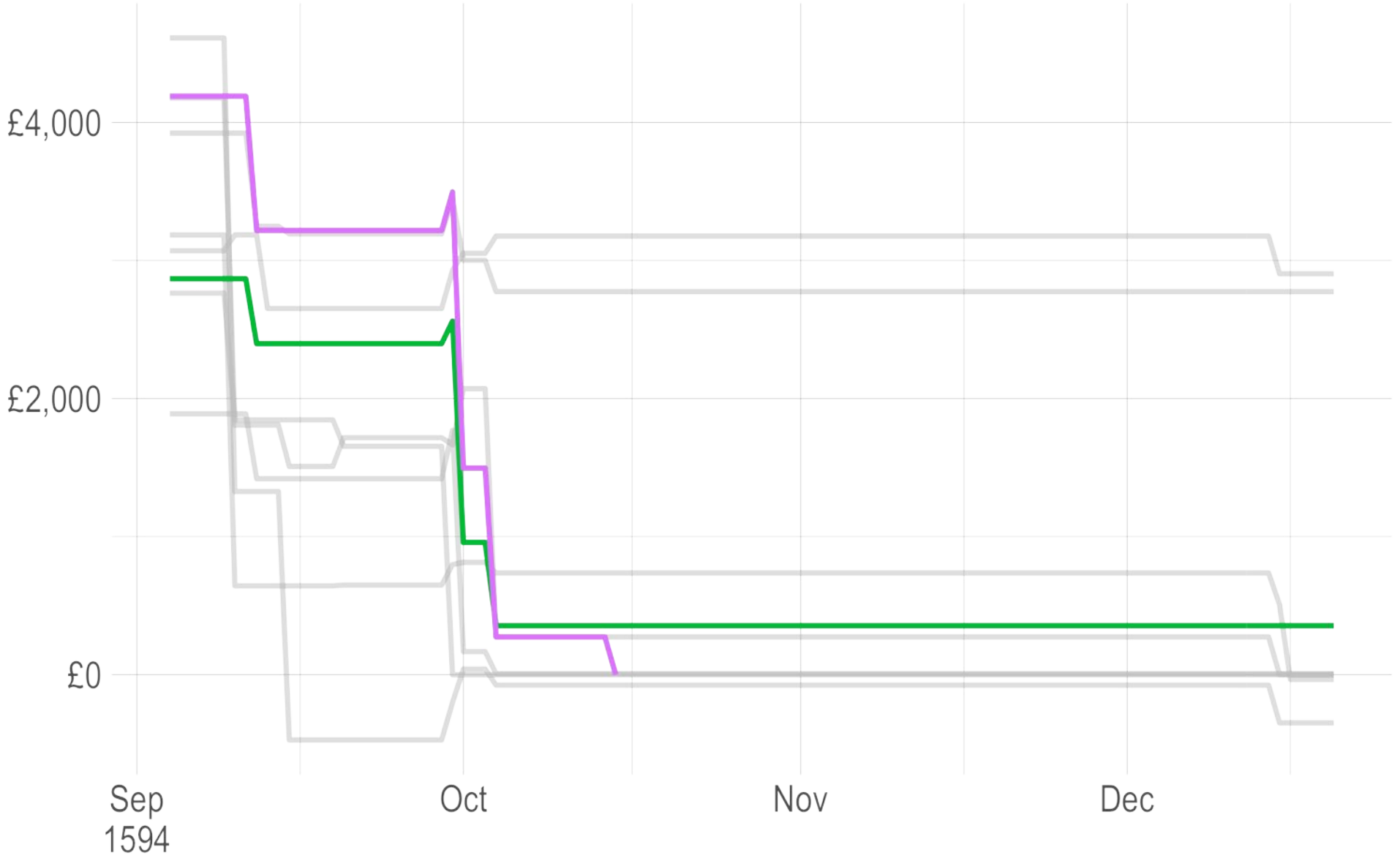
Inheritance of the heirs of Jan de Oude, 1582–1594

Highlighting the inheritance of Hester and Carlo



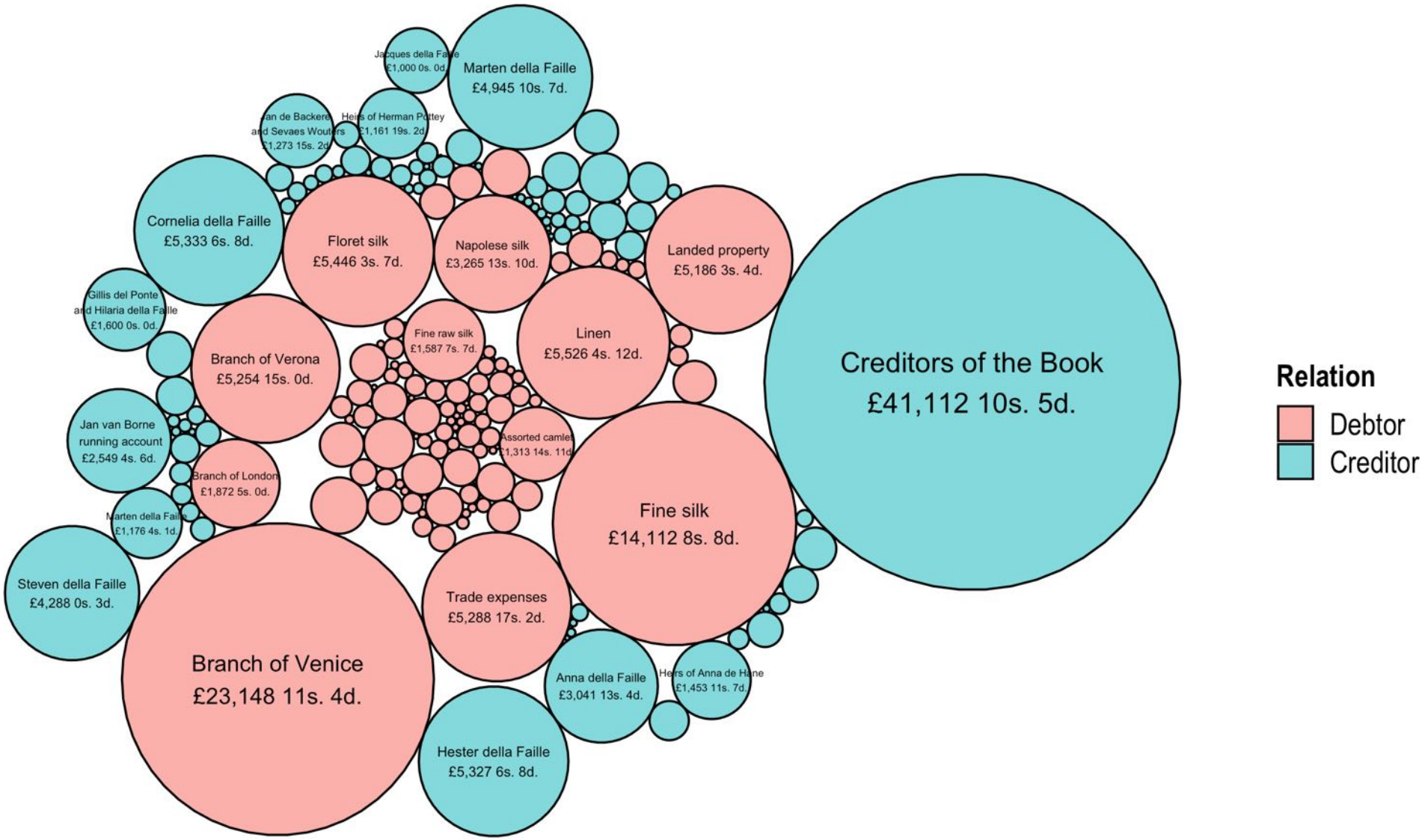
Phase 3: September to December 1594

Highlighting the inheritance of Hester and Carlo

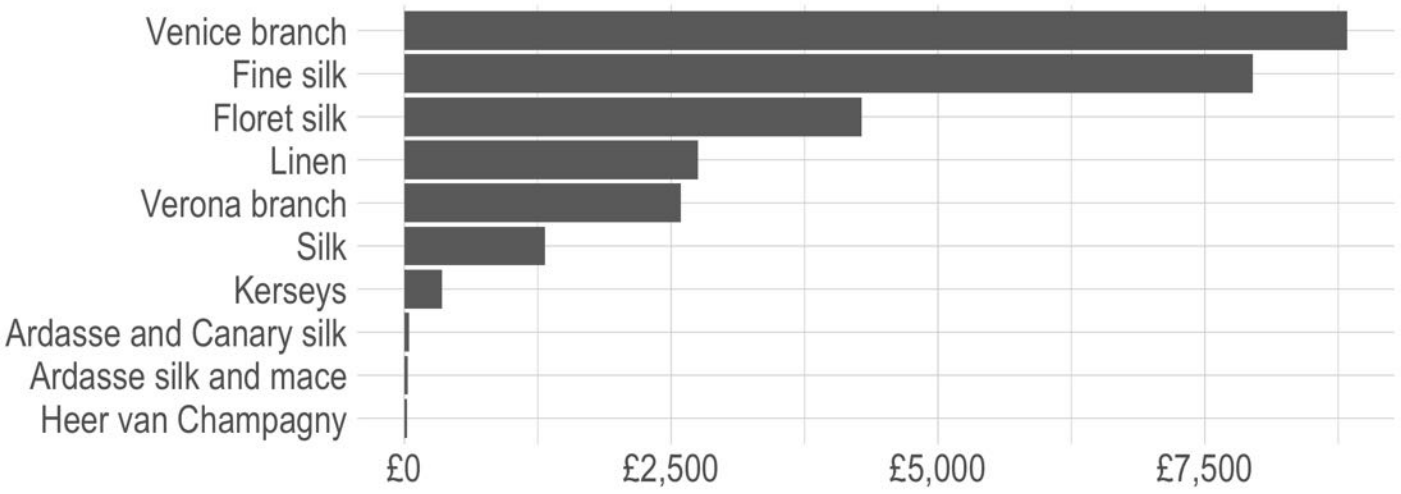


Value of accounts in the estate of Jan della Faille de Oude, 8 December 1582

Opening value of the estate: £82,813 5s. 8d.

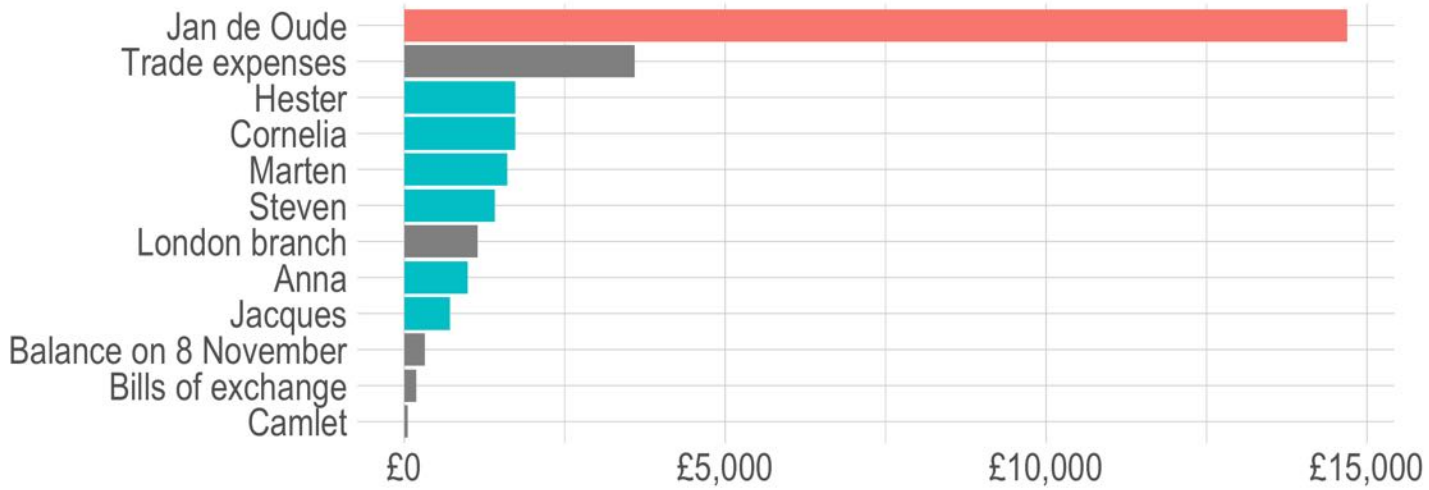


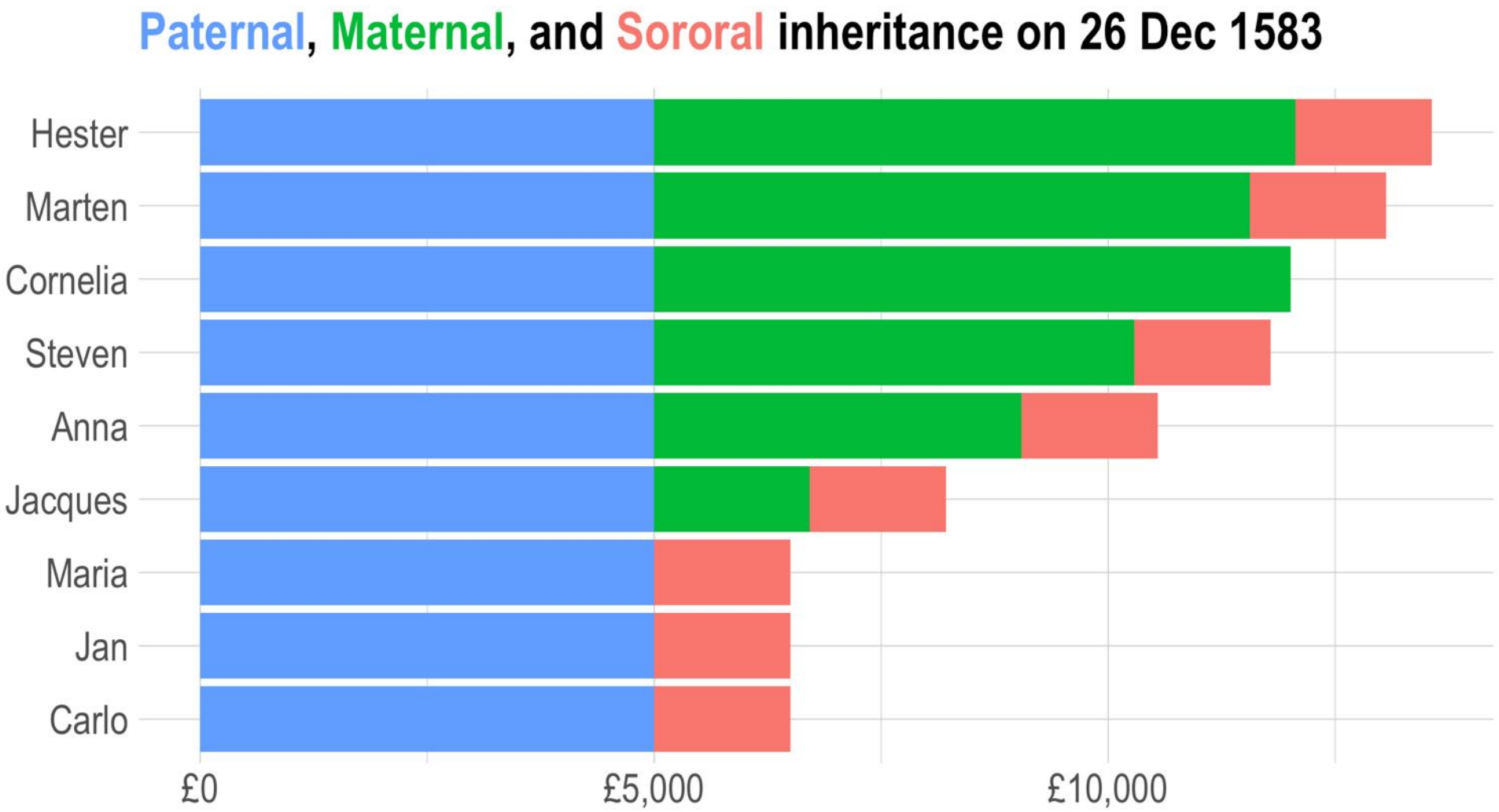
Sources of profits, 1579 to 15 Dec 1583

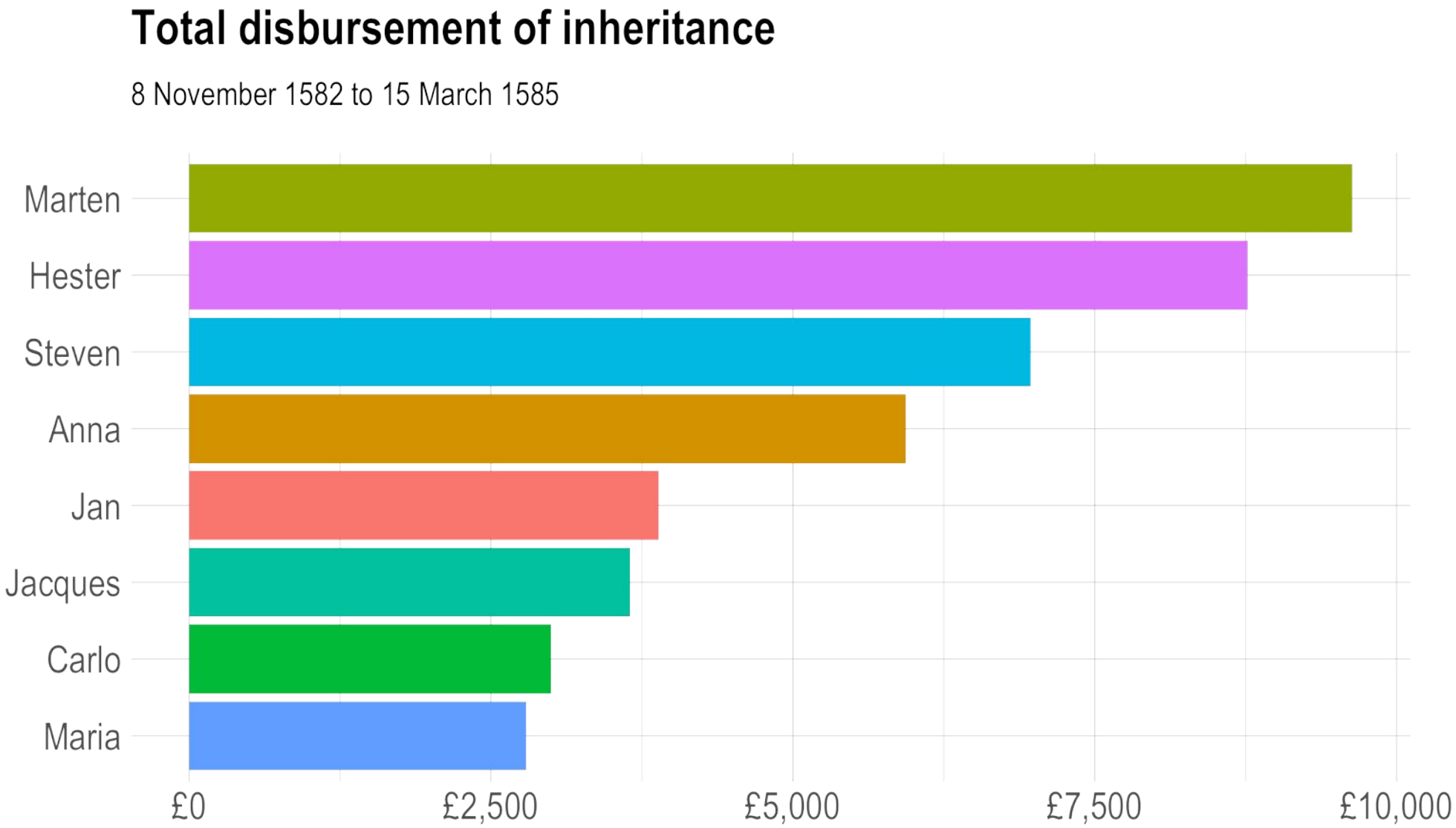


Distribution of Paternal and Maternal profits

With some expenses/losses

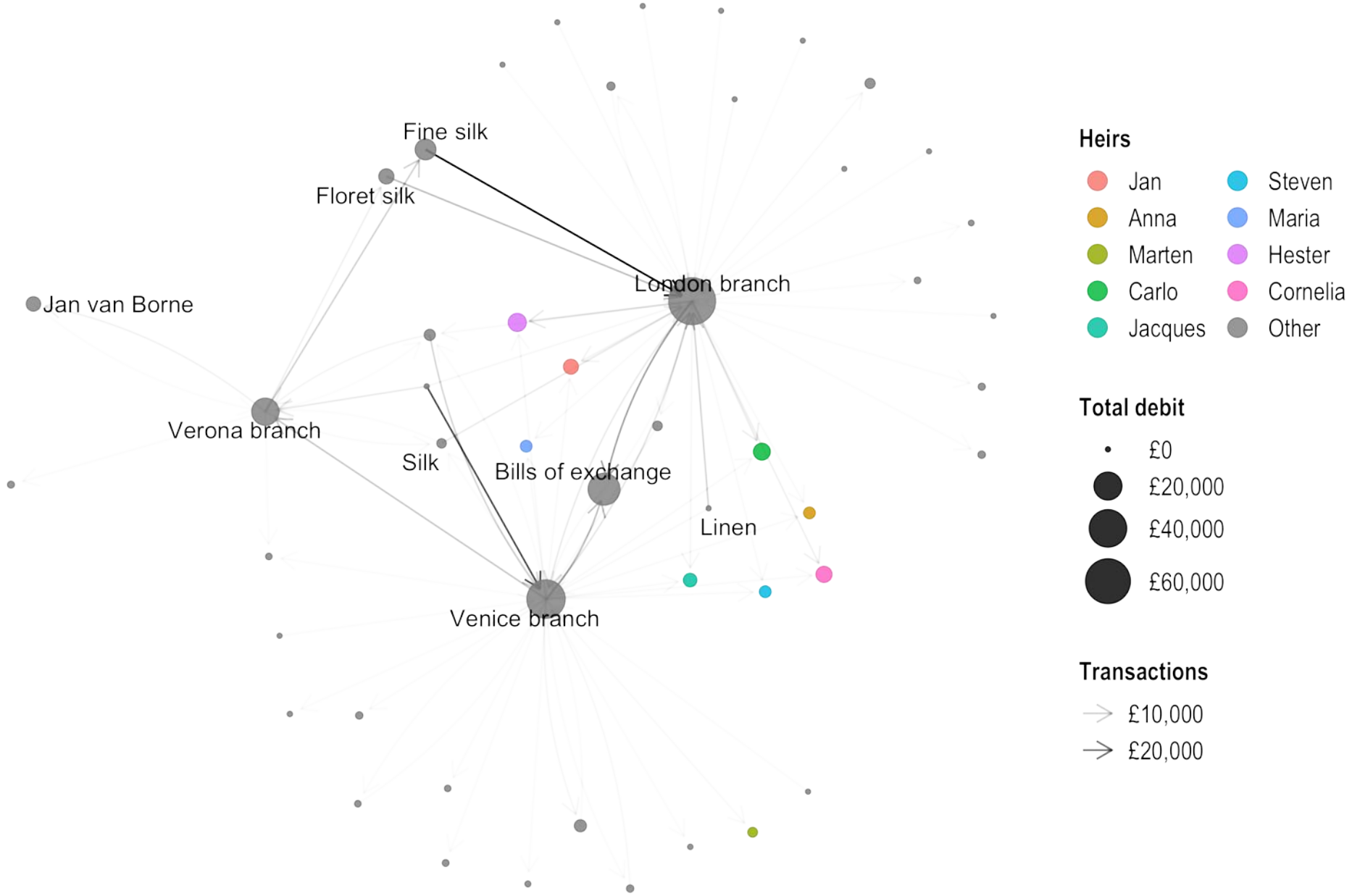


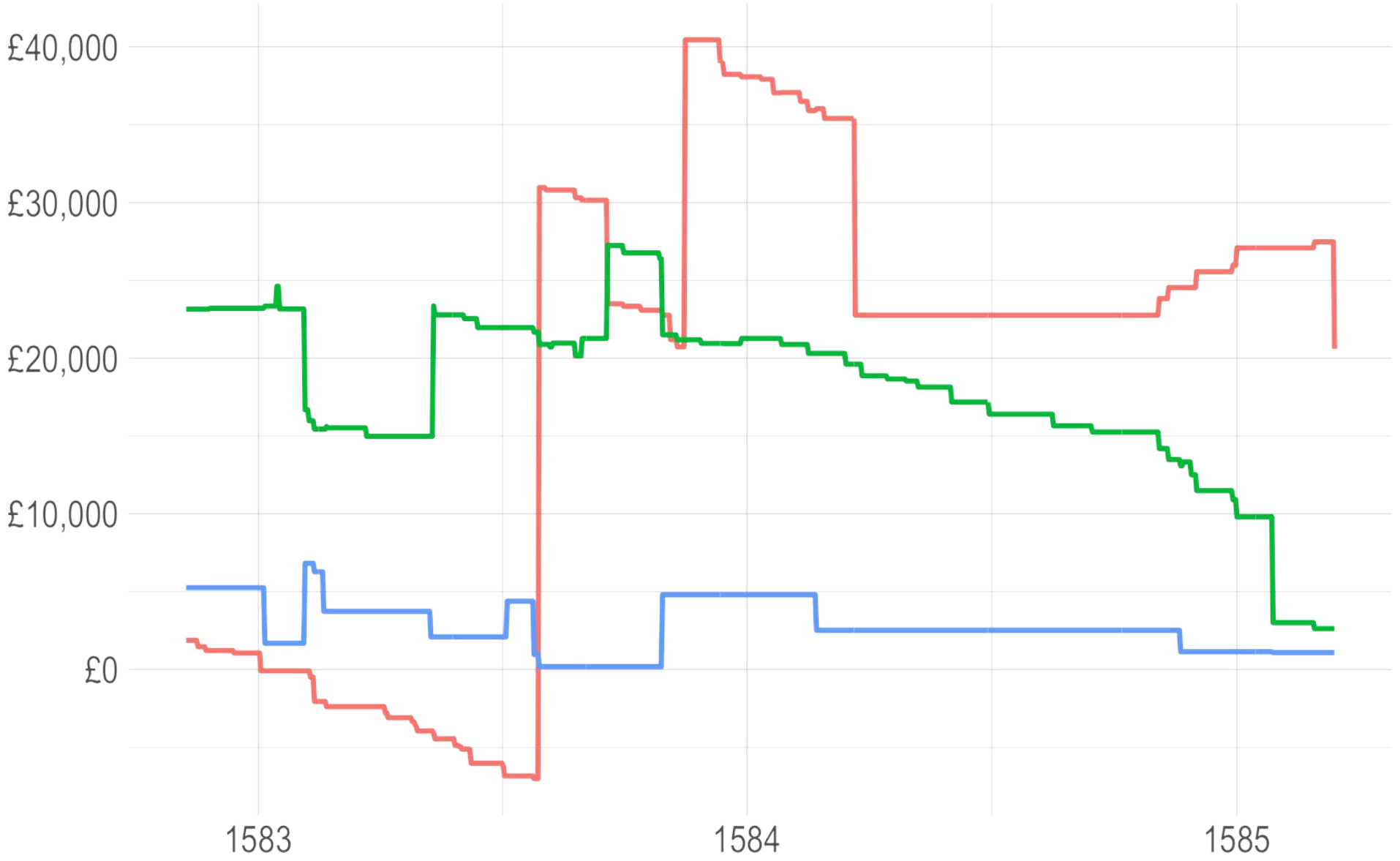

Paternal, Maternal, and Sororal inheritance on 26 Dec 1583
Hester
Marten
Cornelia
Steven
Anna
Jacques
Maria
Jan
Carlo
£0
£5,000
£10,000


Total disbursement of inheritance
8 November 1582 to 15 March 1585
Marten
Hester
Steven
Anna
Jan
Jacques
Carlo
Maria
£0
£2,500
£5,000
£7,500
£10,000

Subgraph of the branches in the trade of Jan de Oude

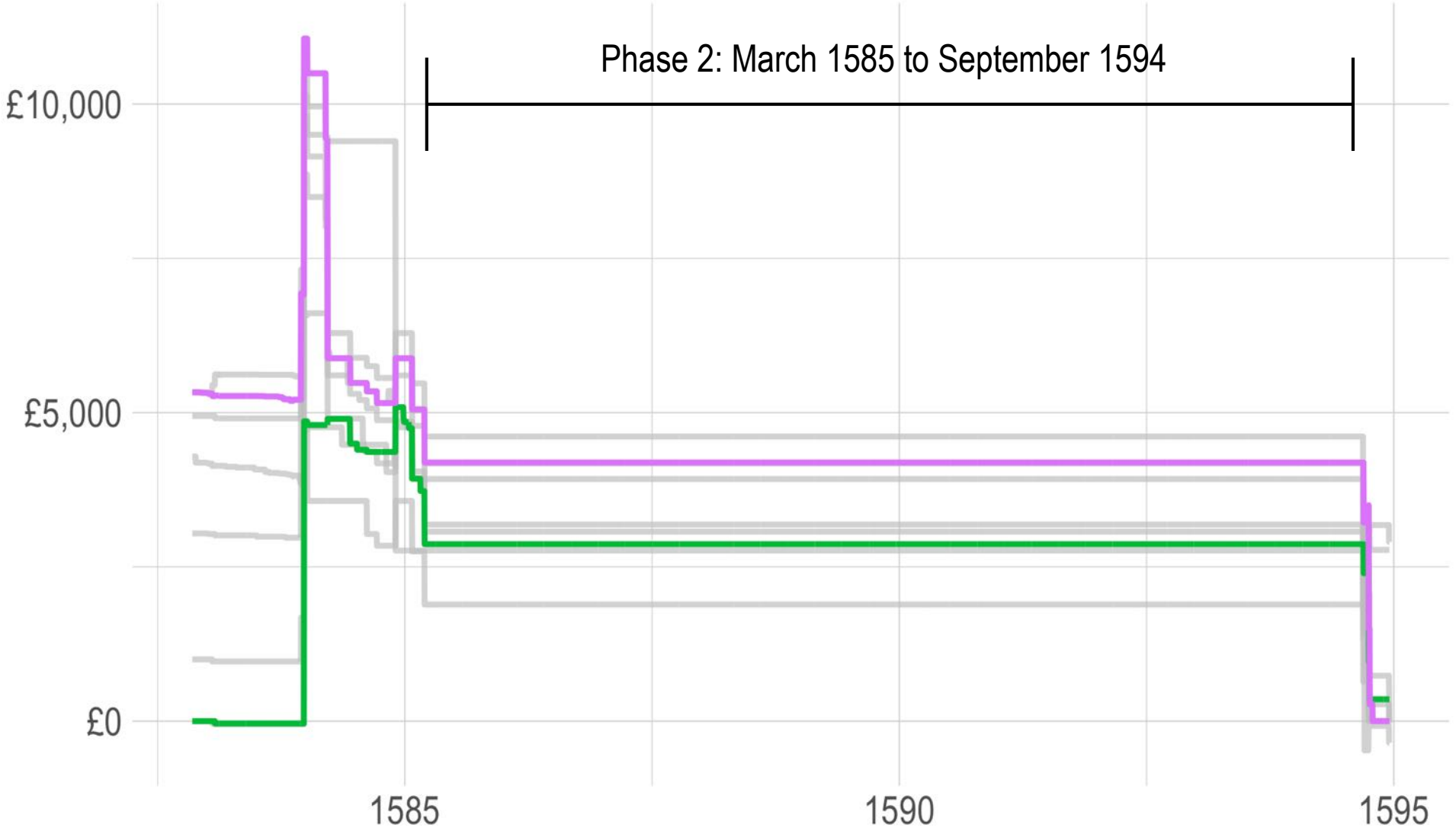
8 November 1582 to 15 March 1585



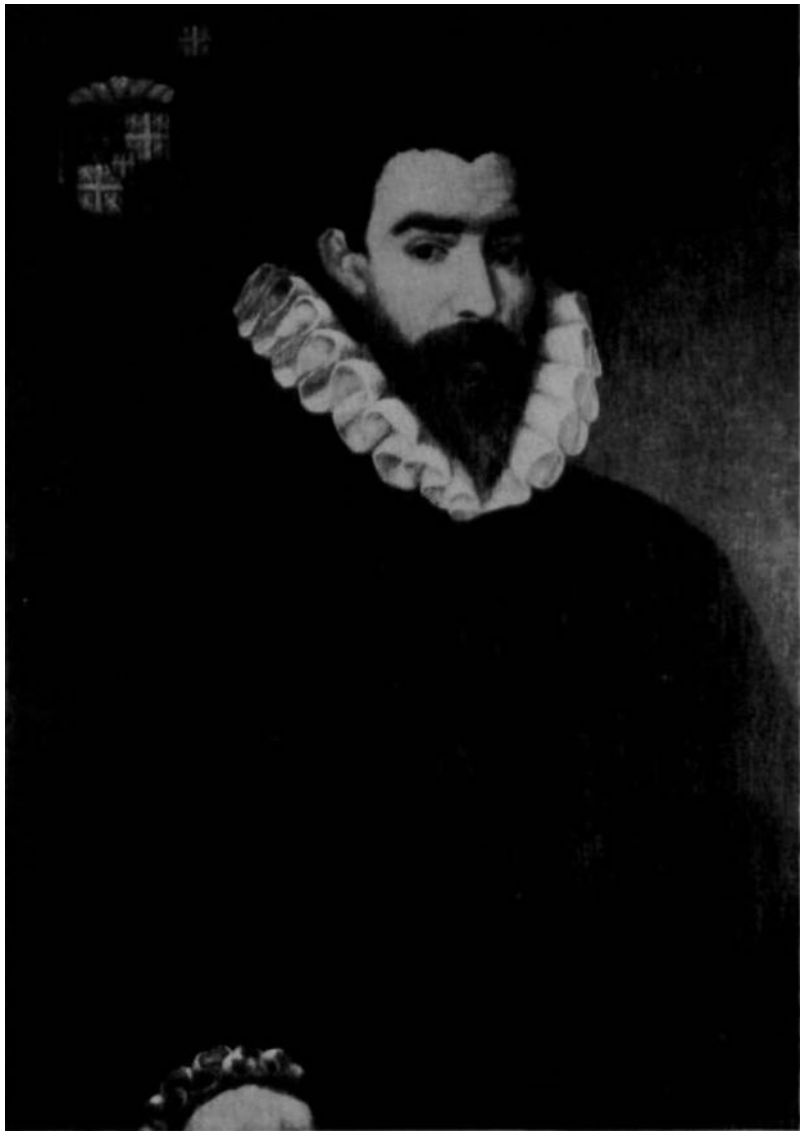

Capital held by the branches of London, Venice, and Verona
8 November 1582 to 15 March 1585
£40,000
£30,000
£20,000
£10,000
£0
1583
1584
1585

Inheritance of the heirs of Jan de Oude, 1582–1594

Highlighting the inheritance of Hester and Carlo



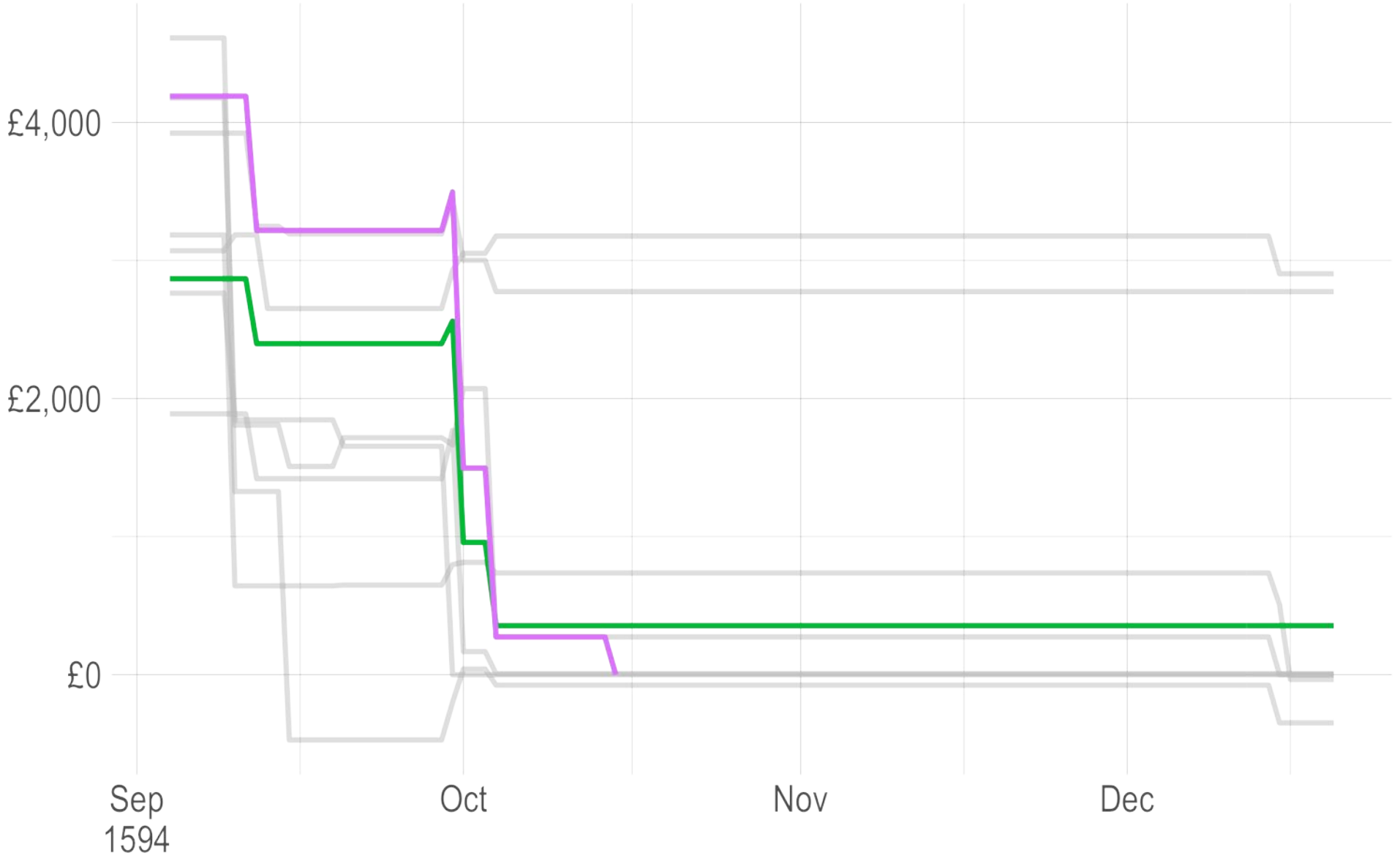
Marten della Faille
(1544/5–1620)



Jacques della Faille
(1549/50–1615)

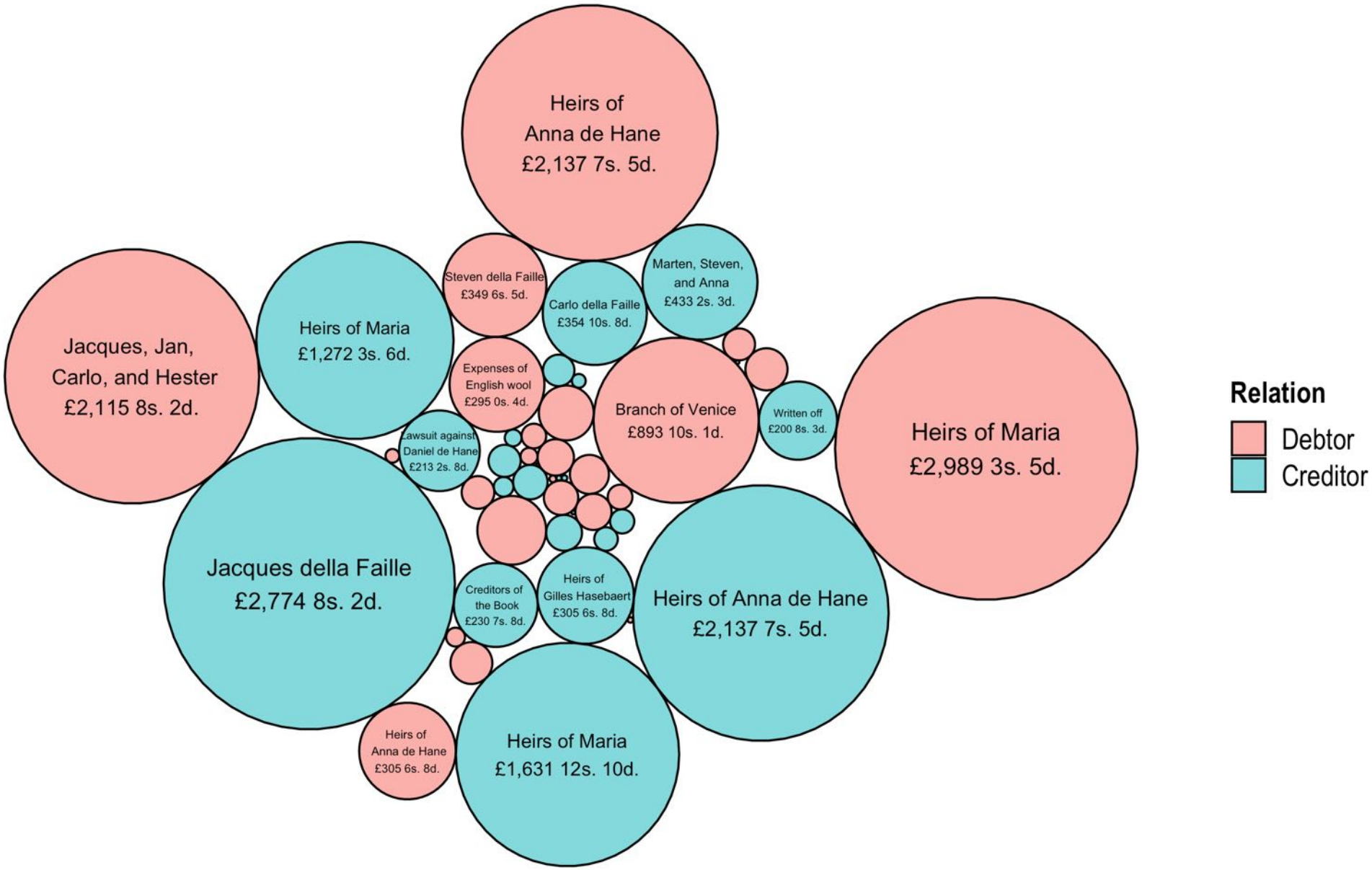
Phase 3: September to December 1594

Highlighting the inheritance of Hester and Carlo



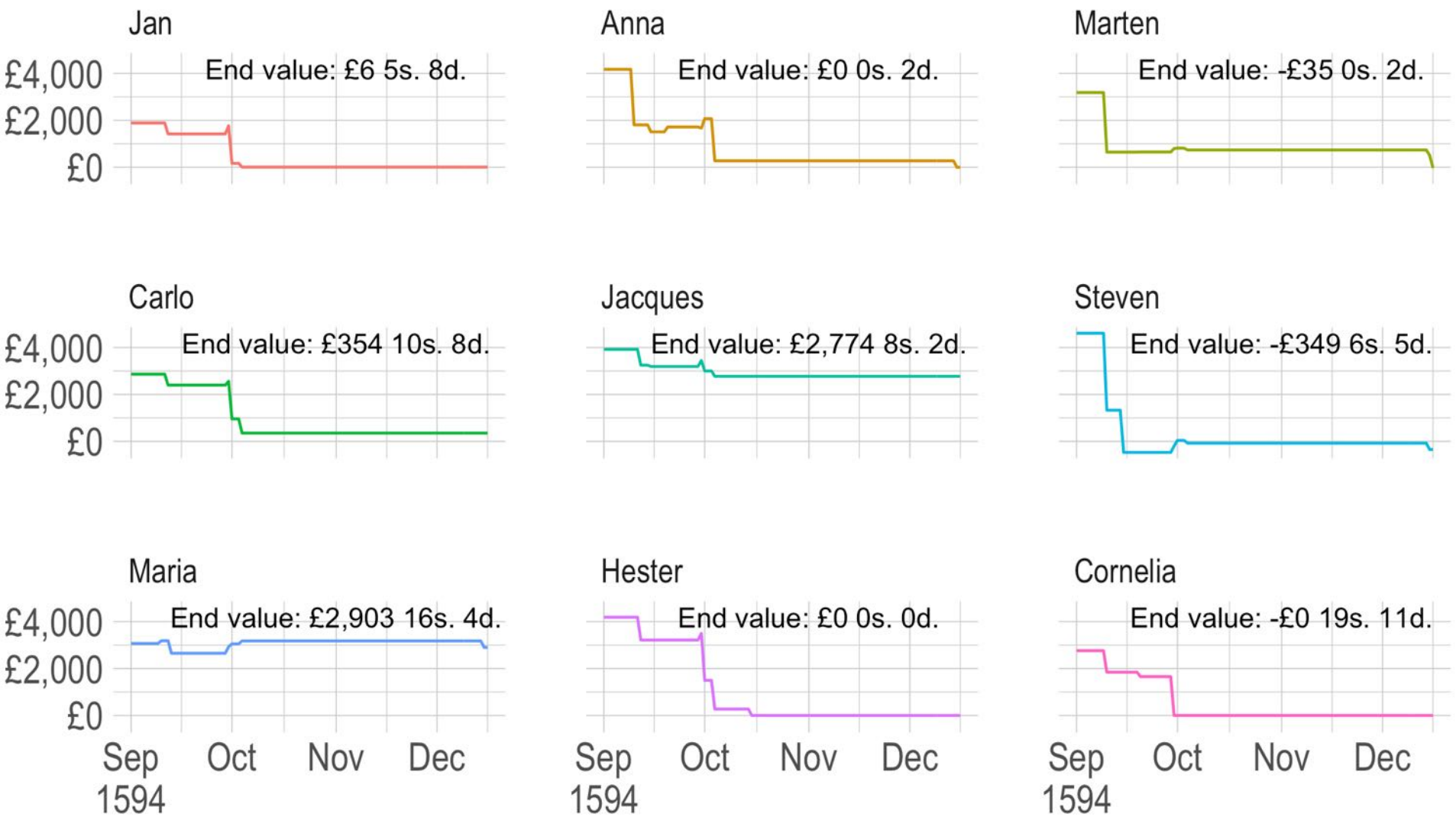
Value of accounts in the estate of Jan della Faille de Oude, 31 December 1594

Capital remaining in the estate at the close of the books: £9,768 1s. 8d.



Inheritance due to the heirs of Jan de Oude

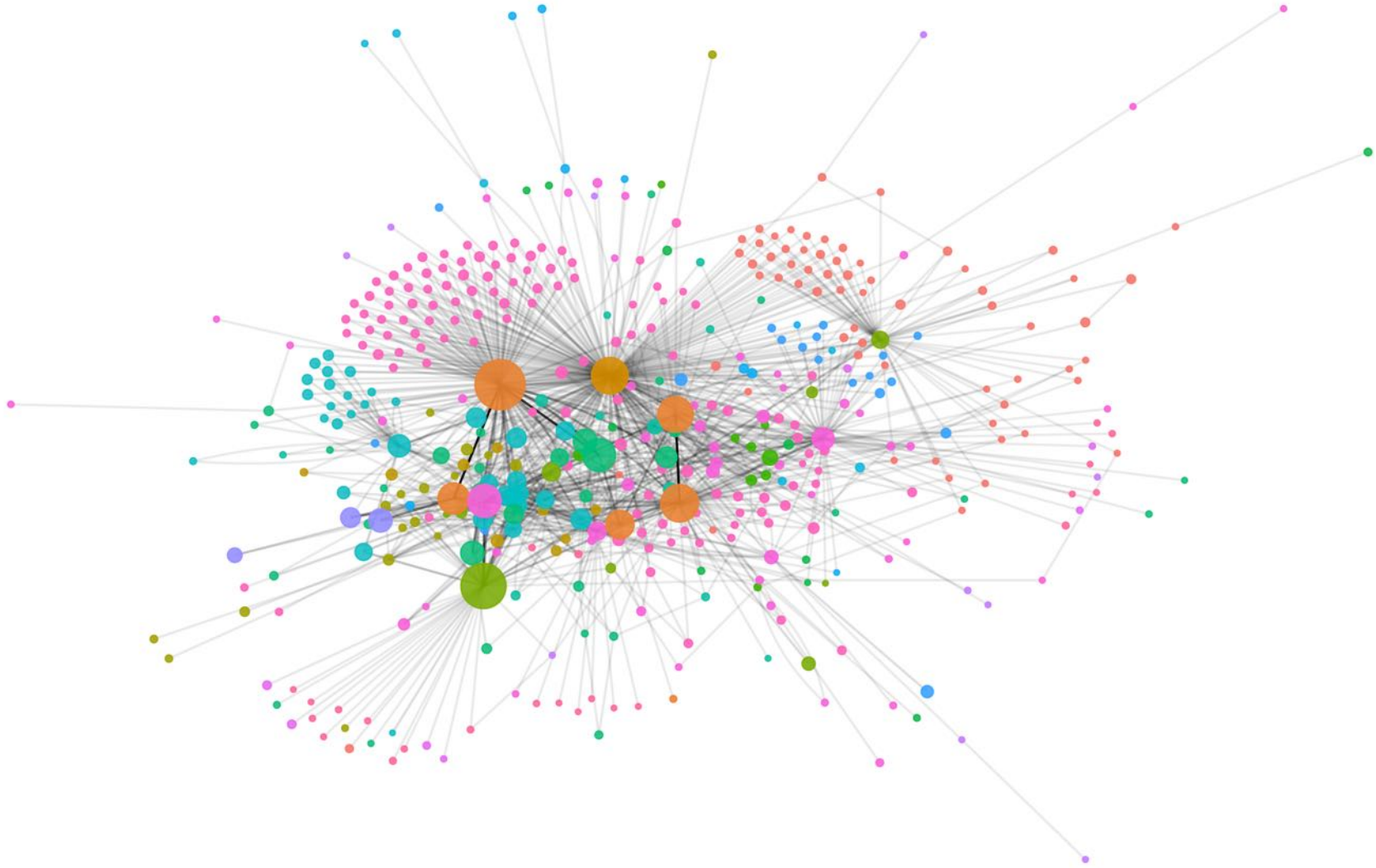
September 1594 to 16 December 1594



Daniel van der Meulen
(1554–1600)

Hester della Faille
(c. 1558–1643)

Estate of Jan della Faille de Oude, 1582–1594



Account types

Bequest · Branch · Cassa · Company · Erffgoed · Estate · Factor · Giovane · Goods · Heir

Inheritance · Kin · Law · Loan · London Inheritance · Miscellaneous · Political · Trade · Wissel · Written off