

Personal Data Mining

(not) just for fun

github.com/ewandennis

@ewanovitch

cloudygoo.com

SCOTLAND JS

What's in our data?

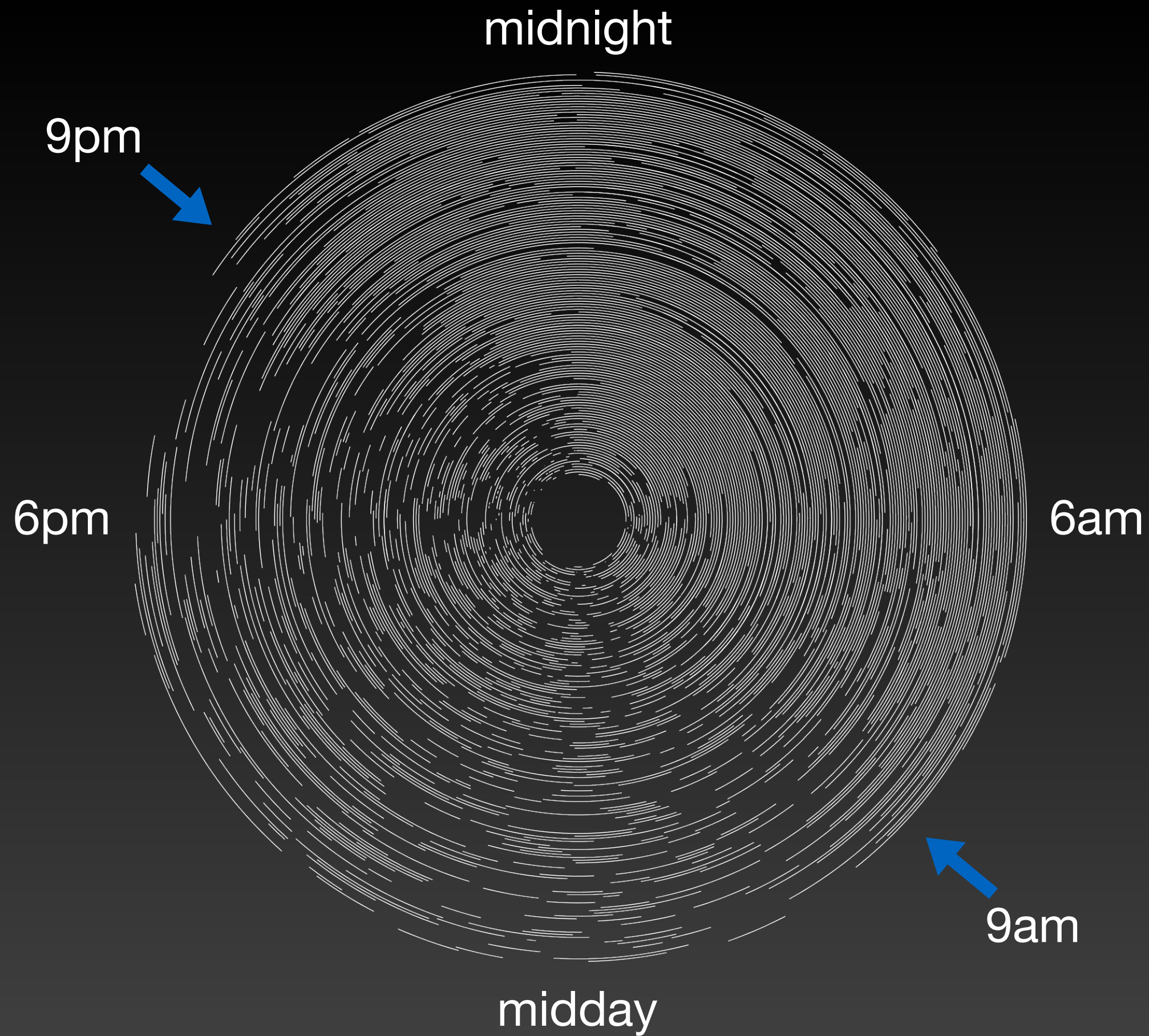
Dataset 1

Molly's first six months of sleep

~1100 records over 6 months

```
{  
  start: Date,  
  sleepDuration: Number  
}
```

source: iOS app
conditioning: JS, d3.js
presentation: d3.js / SVG / CSS



Upshot: Molly sleeps at night

github.com/ewandennis/d3-daily-patterns

Dataset 2

Glasgow to London flight

Source: Android app
~11000 records

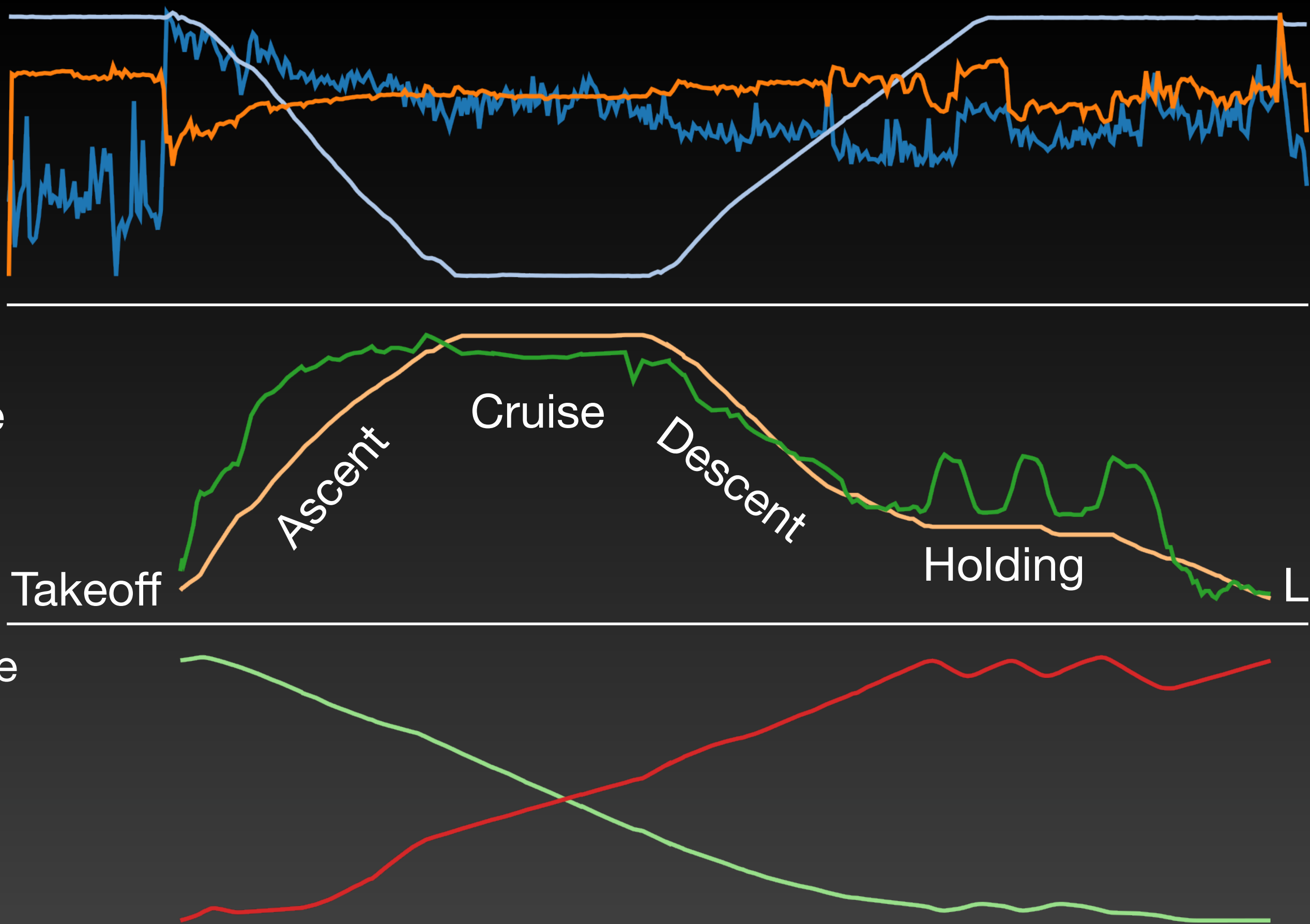
```
{  
  timestamp: Date,  
  pressure: Number,  
  soundLevel: Number,  
  ...  
}
```

Source: ADS-B
~180 records

```
{  
  timestamp: Date,  
  lat: Number,  
  long: Number,  
  course: Number,  
  direction: String,  
  airSpeed: Number,  
  groundSpeed: Number,  
  altitude: Number,  
  ...  
}
```

conditioning: JS, d3.js
presentation: d3.js / SVG / CSS

- sound
- pitch
- pressure
- speed
- altitude
- latitude
- longitude



Observation

Even if a data stream is broadcast over the air,
there's still a business in serving it.

github.com/ewandennis/d3-flight-timeline

Dataset 3

10 years of current account history

Source: online banking
~8400 records

```
{  
  timestamp: Date,  
  description: String,  
  cr: Number,  
  dr: Number,  
  balance: Number  
}
```

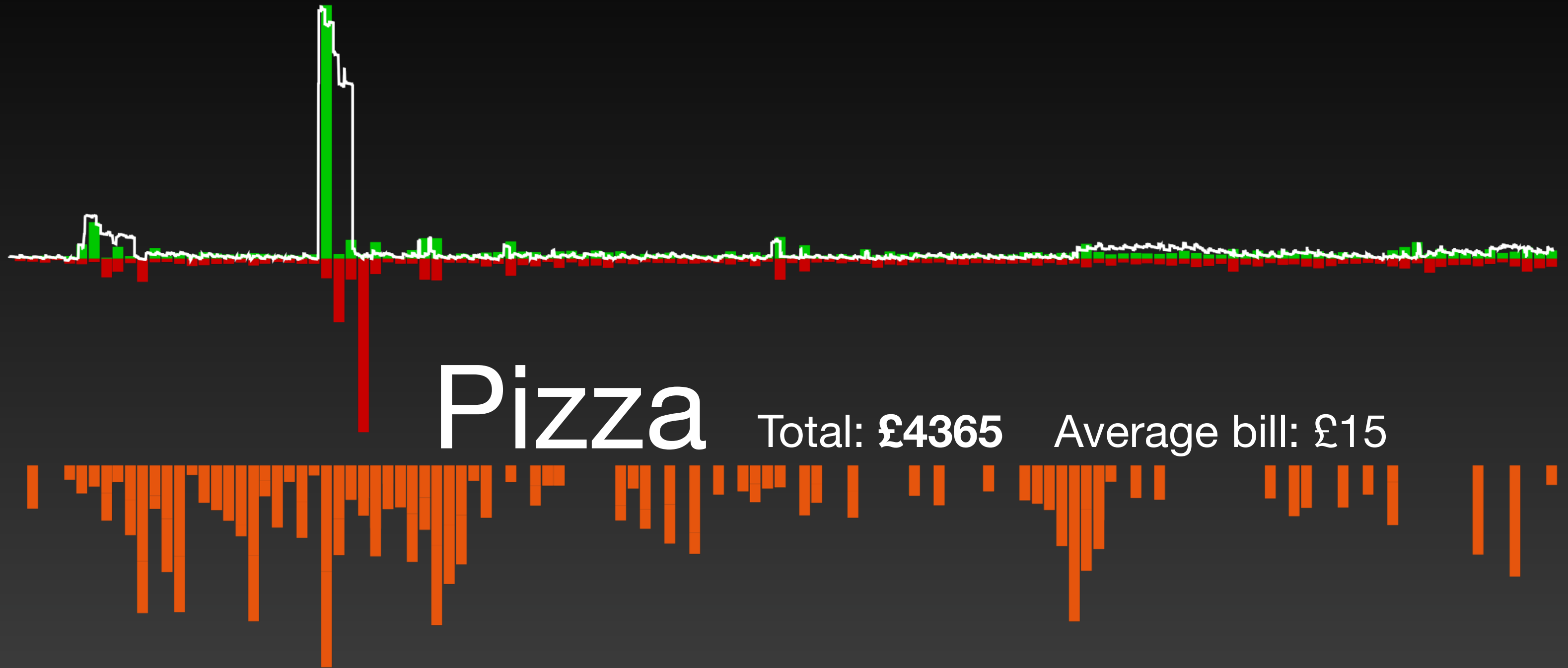
acquisition: phantom.js, casper.js
conditioning: JS, d3.js
presentation: d3.js / SVG / CSS



github.com/ewandennis/d3-account-history



2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016



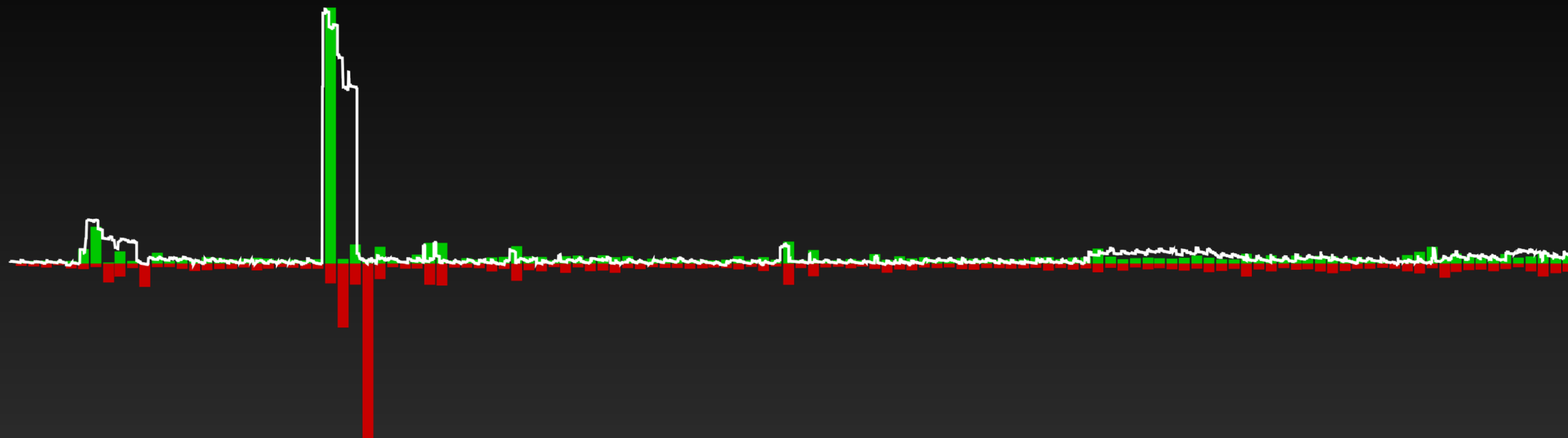
Pizza

Total: £4365

Average bill: £15

github.com/ewandennis/d3-account-history

2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016



Zoo →

github.com/ewandennis/d3-account-history

2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016



Interest/Fees £5997.07
£380.17

github.com/ewandennis/d3-account-history

2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016



Salary

Total: £314,126 Average yearly: £30,000

github.com/ewandennis/d3-account-history

£ ???

Senior Engineer

SPARKPOST

▲ Why not just a simple spreadsheet of salaries? (docs.google.com)

663 points by z0a 61 days ago | past | web | 361 comments

Gender In Tech

male: 3209

unspecified: 182

female: 166

cis*: 1

▲ Why not just a simple spreadsheet of salaries? (docs.google.com)

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Gender In Tech

male: 3209

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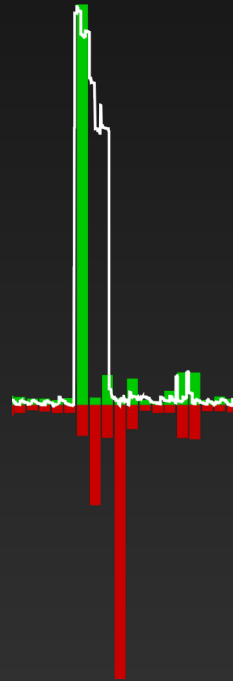
cis*: 1

attack helicopter: 3



Thanks for listening!

Guess the spike

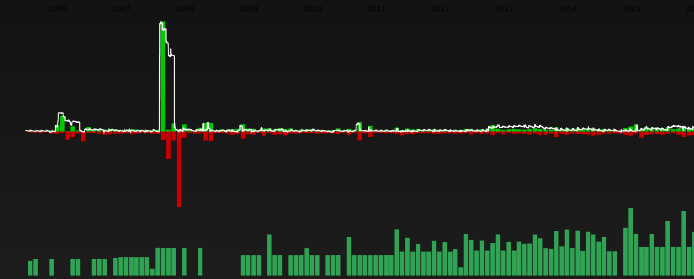
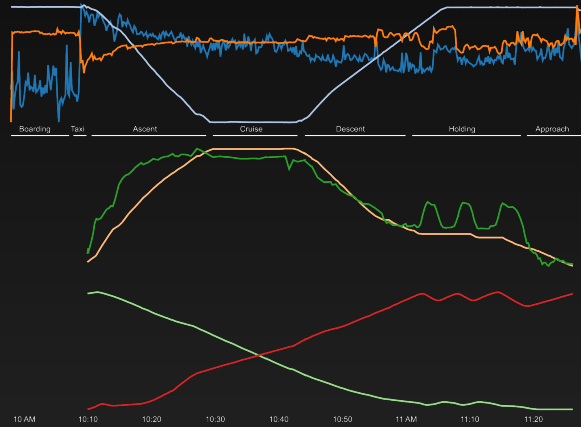


Guess my income

SPARK **POST**
senior engineer

...and come explore the details!

Resources



Tools phantom.js casper.js d3.js

Data sources ADS-B AIS MIDATA

Organisations IEEE (INFOVIZ) OBWG Fidor Bank

Publications Edward R. Tufte. *The Visual Display Of Quantitative Information*
M. Weber, M Alexa, W. Muller. *Visualizing Time-Series on Spirals*, INFOVIZ 2001