

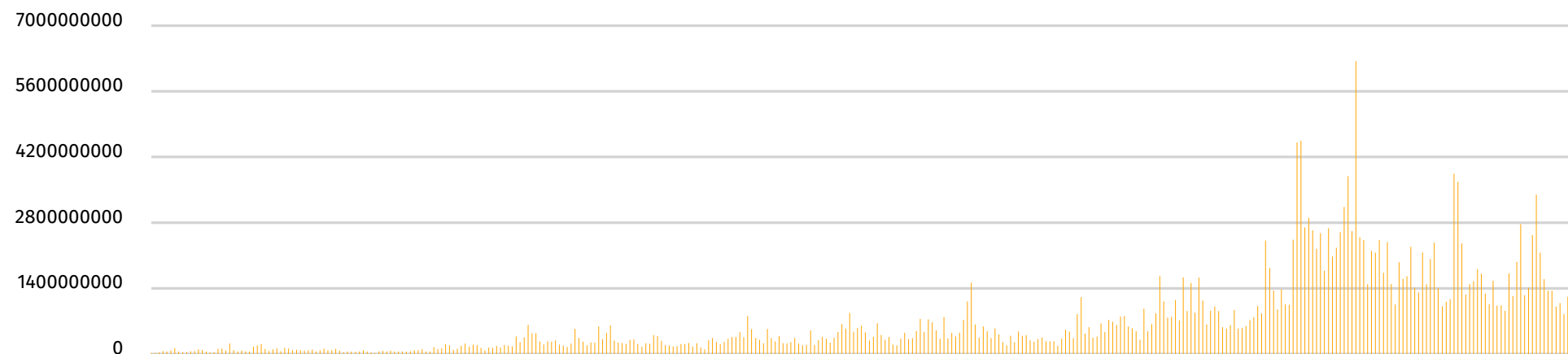
dchart

charts for deck

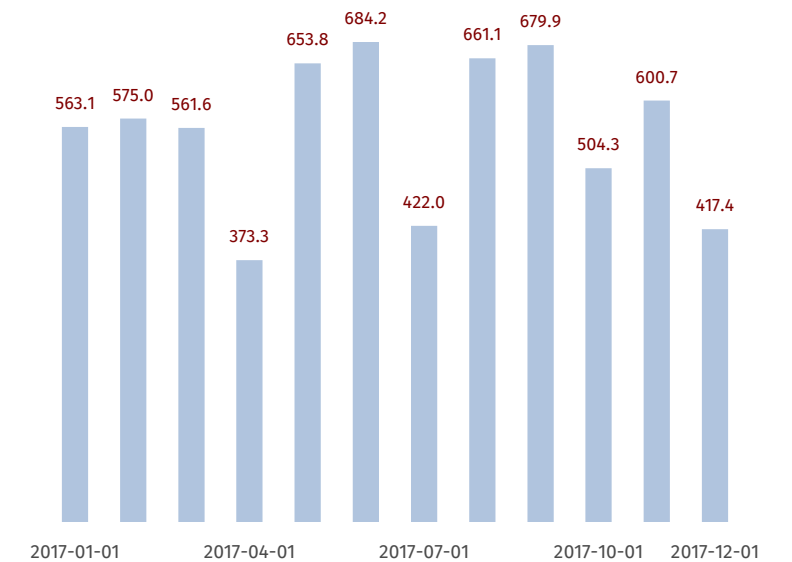
BITCOIN to USD



Volume



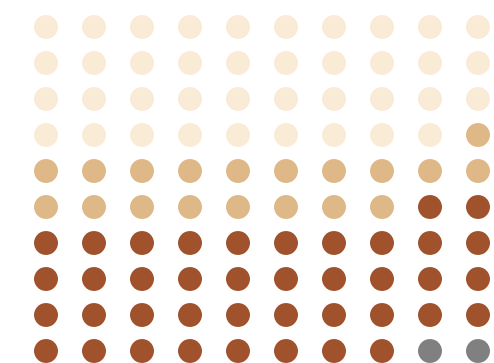
AAPL Volume



Browser Market Share Dec 2016-Dec 2017



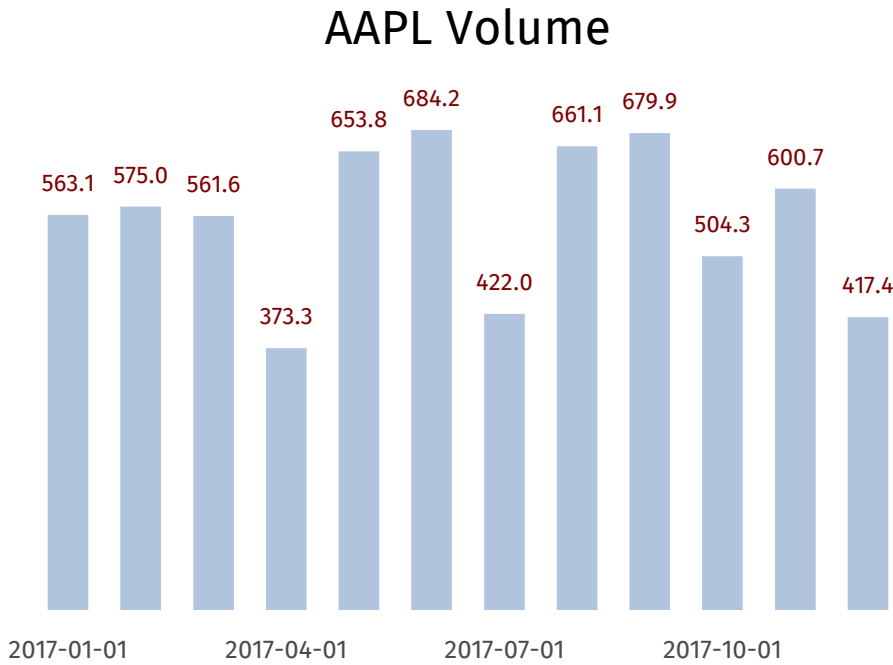
US Incarceration Rate



Anthony Starks

#	AAPL	Volume
2017-01-01	563.122	
2017-02-01	574.969	
2017-03-01	561.628	
2017-04-01	373.304	
2017-05-01	653.755	
2017-06-01	684.178	
2017-07-01	421.992	
2017-08-01	661.069	
2017-09-01	679.879	
2017-10-01	504.291	
2017-11-01	600.663	
2017-12-01	417.354	

```
<deck>  
  <slide>  
    <text ...>AAPL Volume</text>  
    <line ... color="lightsteelblue"/>  
    <text ... color="rgb(127,0,0)">563.1</text>  
    <text ... color="rgb(75,75,75)">2017-01-01</text>  
  </slide>  
</deck>
```



data | dchart | pdf

```
#!/bin/sh
```

```
awk '
```

```
BEGIN {
```

```
    Pi = 3.14159265359
```

```
    print "# y=sin(x)"
```

```
    for (x=0.0; x <= 2*Pi; x += 0.1) {
```

```
        printf "%.2f\t%.4f\n", x, sin(x)
```

```
    }
```

```
}'
```

```
# y=sin(x)
```

```
0.00      0.00000
```

```
0.10      0.0998
```

```
0.20      0.1987
```

```
0.30      0.2955
```

```
0.40      0.3894
```

```
0.50      0.4794
```

```
0.60      0.5646
```

```
0.70      0.6442
```

```
0.80      0.7174
```

```
...
```

```
5.80      -0.4646
```

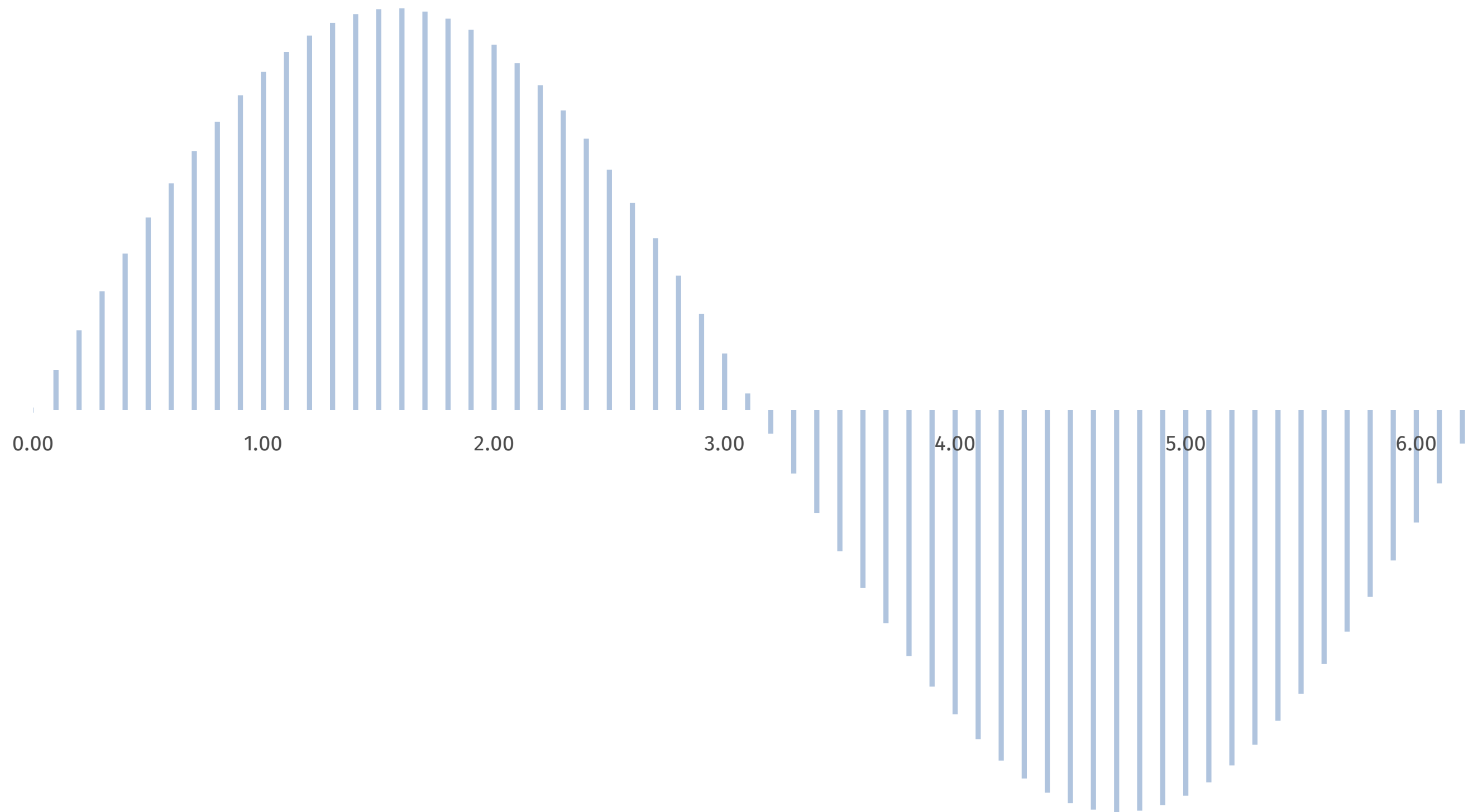
```
5.90      -0.3739
```

```
6.00      -0.2794
```

```
6.10      -0.1822
```

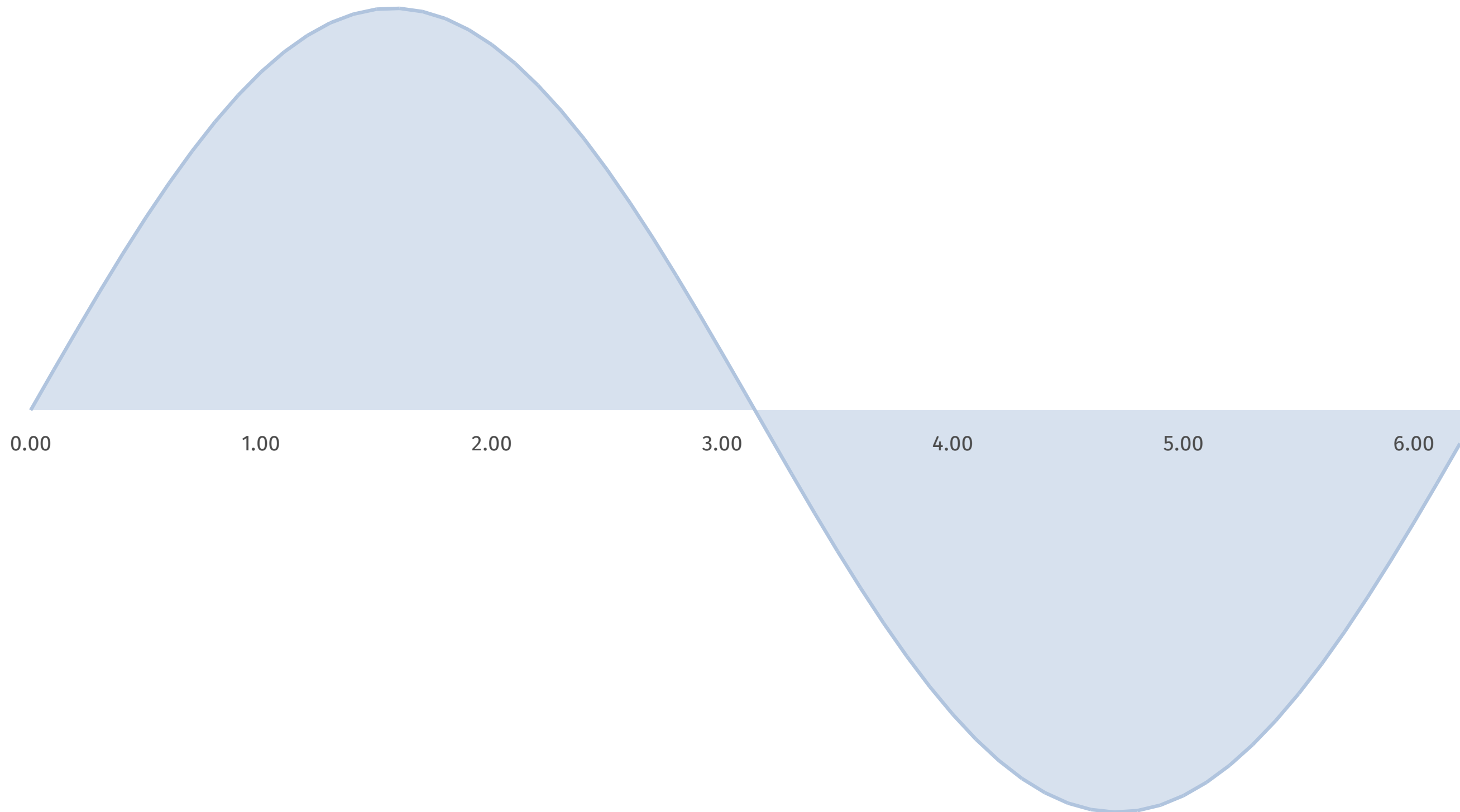
```
6.20      -0.0831
```

$$y=\sin(x)$$



sine | dchart -val=f -bottom=50 -xlabel=10

$$y=\sin(x)$$



sine | dchart -val=f -bottom=50 -xlabel=10 -bar=f -line -vol

```
#!/bin/sh
awk '
BEGIN {
    Pi = 3.14159265359
    print "# y=sin(x)"
    for (x=0.0; x <= 2*Pi; x += 0.1) {
        printf "%.2f\t%.4f\n", x, sin(x)
    }
}'
```

sine | dchart ... -top=90 -bottom=80

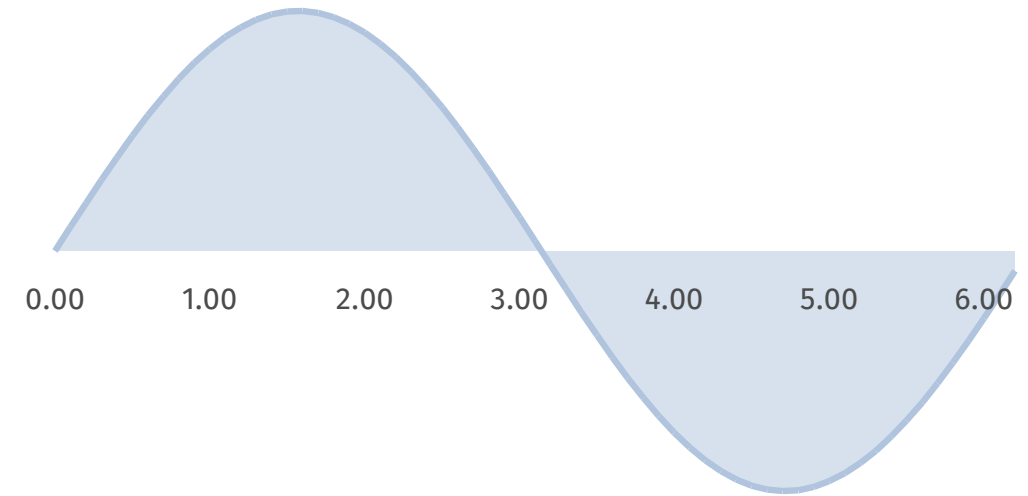
```
#!/bin/sh
awk '
BEGIN {
    Pi = 3.14159265359
    print "# y=cos(x)"
    for (x=0.0; x <= 2*Pi; x += 0.1) {
        printf "%.2f\t%.4f\n", x, cos(x)
    }
}'
```

cosine | dchart ... -top=60 -bottom=50

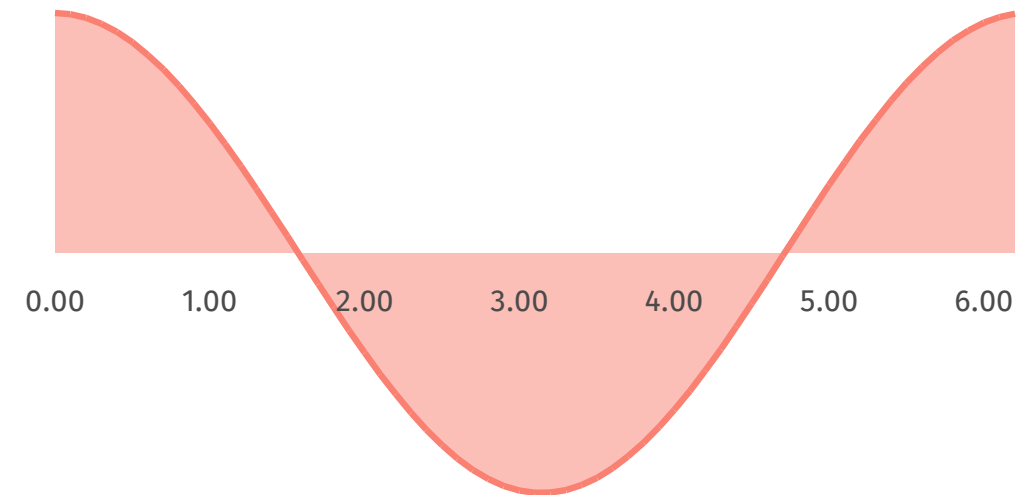
```
#!/bin/sh
awk '
BEGIN {
    Pi = 3.14159265359
    print "# y=sin(x) * cos(x)"
    for (x=0.0; x <= 2*Pi; x += 0.1) {
        printf "%.2f\t%.4f\n", x, sin(x)*cos(x)
    }
}'
```

sincos | dchart ... -top=30 -bottom=20

y=sin(x)



y=cos(x)



y=sin(x) * cos(x)

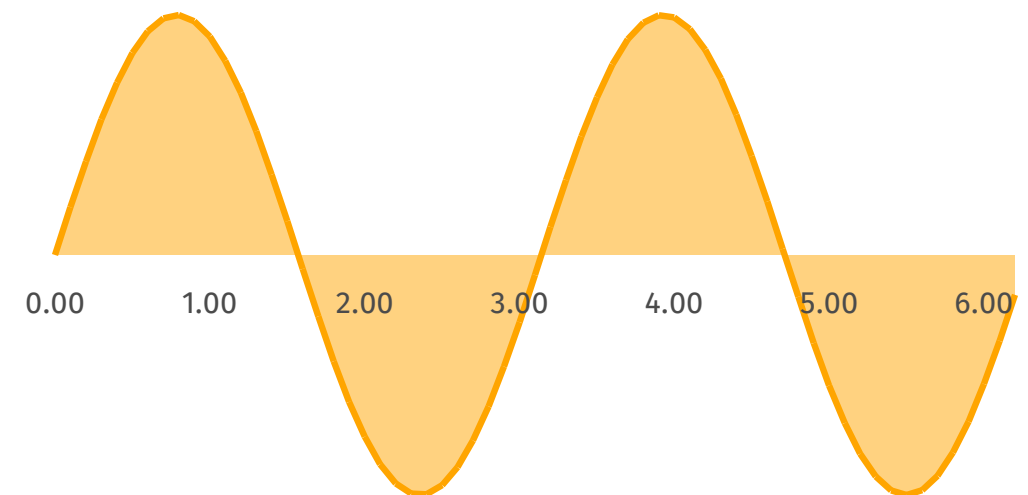


Chart Types

-bar	bar chart (default true)
-wbar	word bar chart (default false)
-hbar	horizontal bar chart (default false)
-scatter	scatter chart (default false)
-dot	dot plot (default false)
-line	line chart (default false)
-vol	volume plot (default false)
-pgrid	proportional grid (default false)
-pmap	proportional map (default false)
-donut	donut chart (default false)

Position and Scaling

-top	top of the plot (default 80)
-bottom	bottom of the plot (default 30)
-left	left margin (default 20)
-right	right margin (default 80)
-min	set the minimum value
-max	set the maximum value
-dmin	data minimum (default false, min=0)

CSV

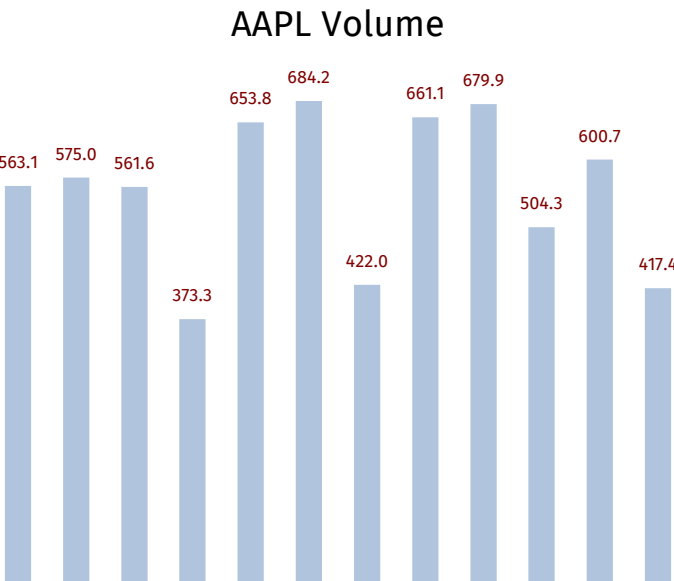
-csv	read CSV files (default false)
-csvcol	specify the columns to use for label,value

Chart Elements

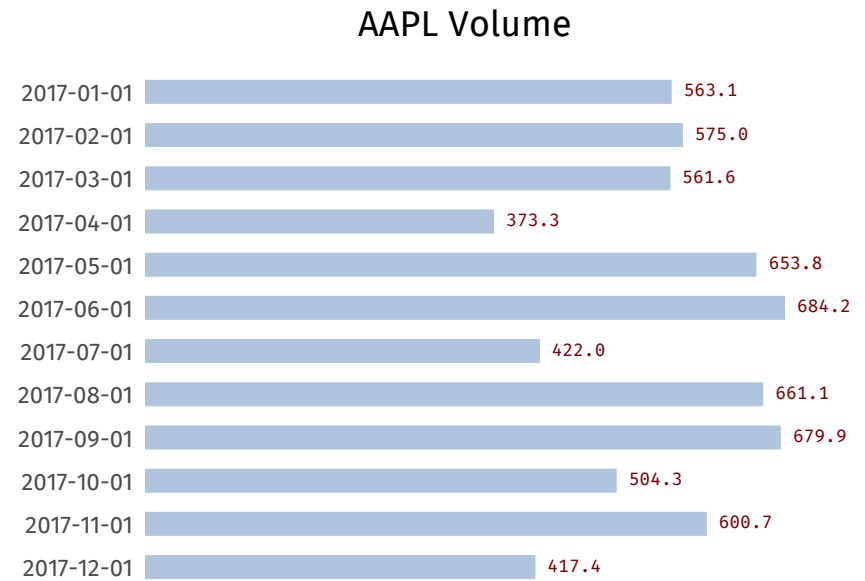
-grid	show gridlines on the y axis (default false)
-val	show values (default true)
-valpos	value position (t=top, b=bottom, m=middle) (default "t")
-yaxis	show a y axis (default true)
-yrange	specify the y axis labels (min,max,step)
-fulldeck	generate full deck markup (default true)
-title	show the title (default true)
-chartitle	specify the title (overriding title in the data)
-xlabel	x axis label interval (default 1, 0 to supress all labels)
-xlast	show the last x label

Measures and Attributes

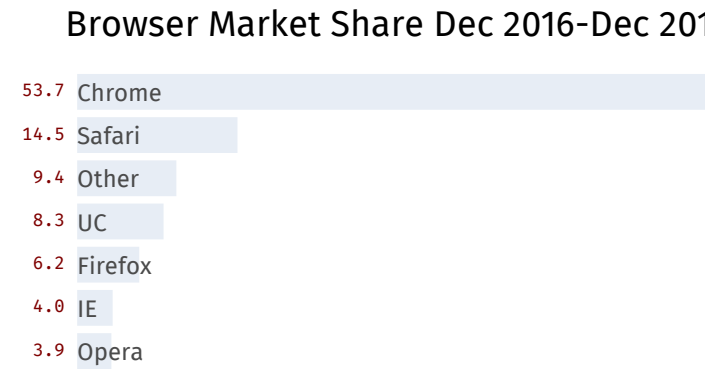
-barwidth	barwidth (default computed from data size)
-ls	linespacing (default 2.4)
-textsize	text size (default 1.5)
-color	data color (default "lightsteelblue")
-vcolor	value color (default "rgb(127,0,0)")
-datafmt	data format for values (default "%.1f")
-psize	diameter of the donut (default 30)
-pwidth	width of the donut or proportional map (default 3)



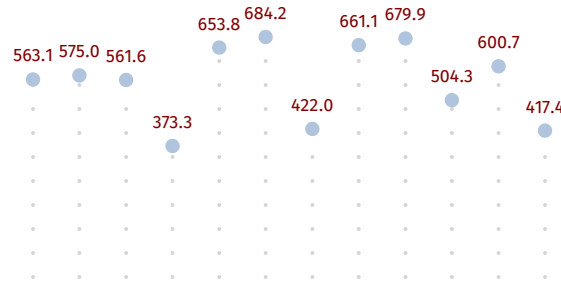
bar



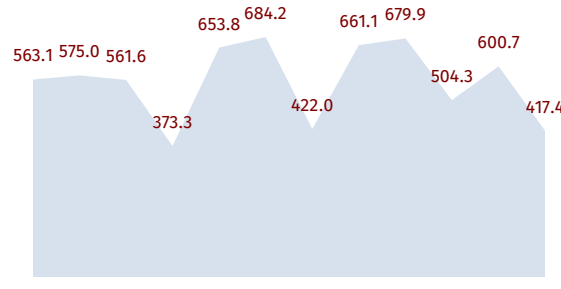
hbar



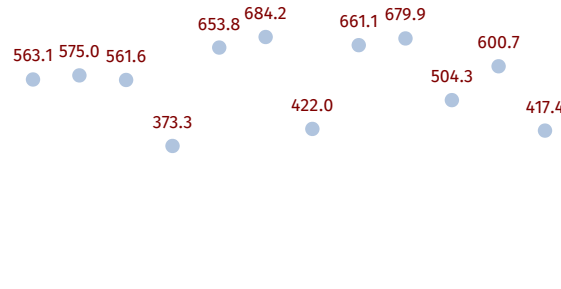
wbar



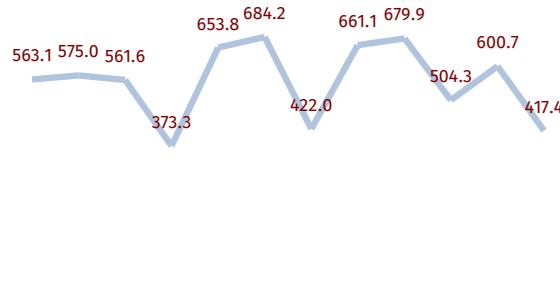
dot



vol

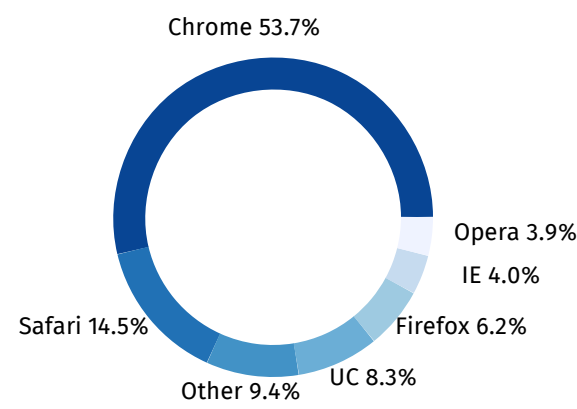


scatter



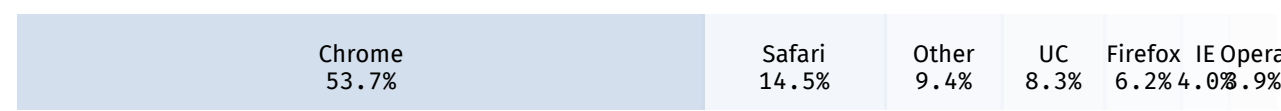
line

Browser Market Share Dec 2016-Dec 2017



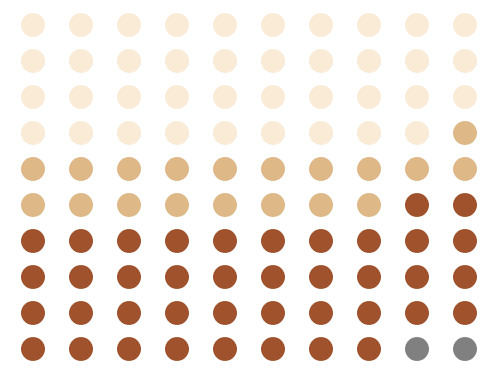
donut

Browser Market Share Dec 2016-Dec 2017



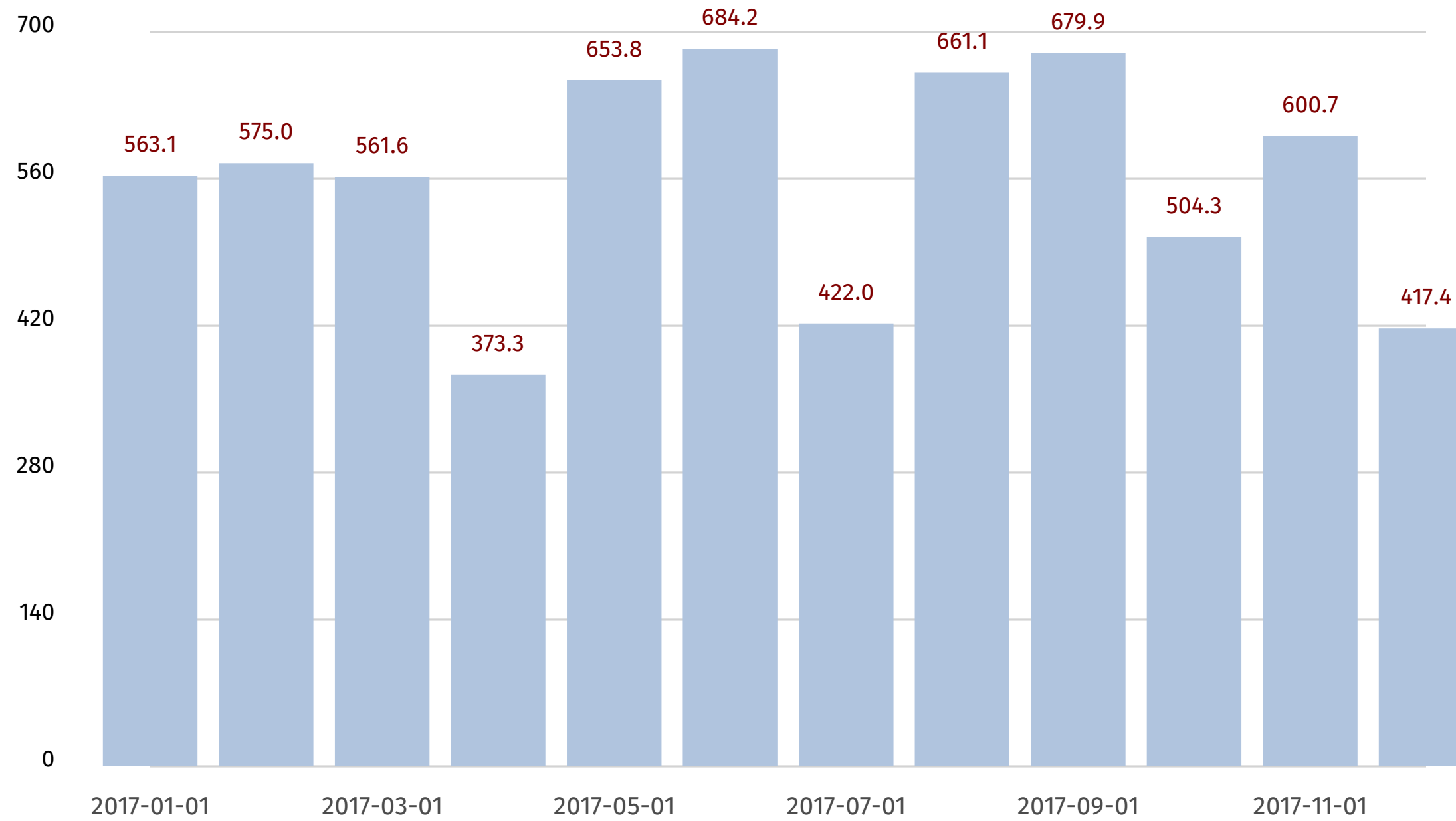
pmap

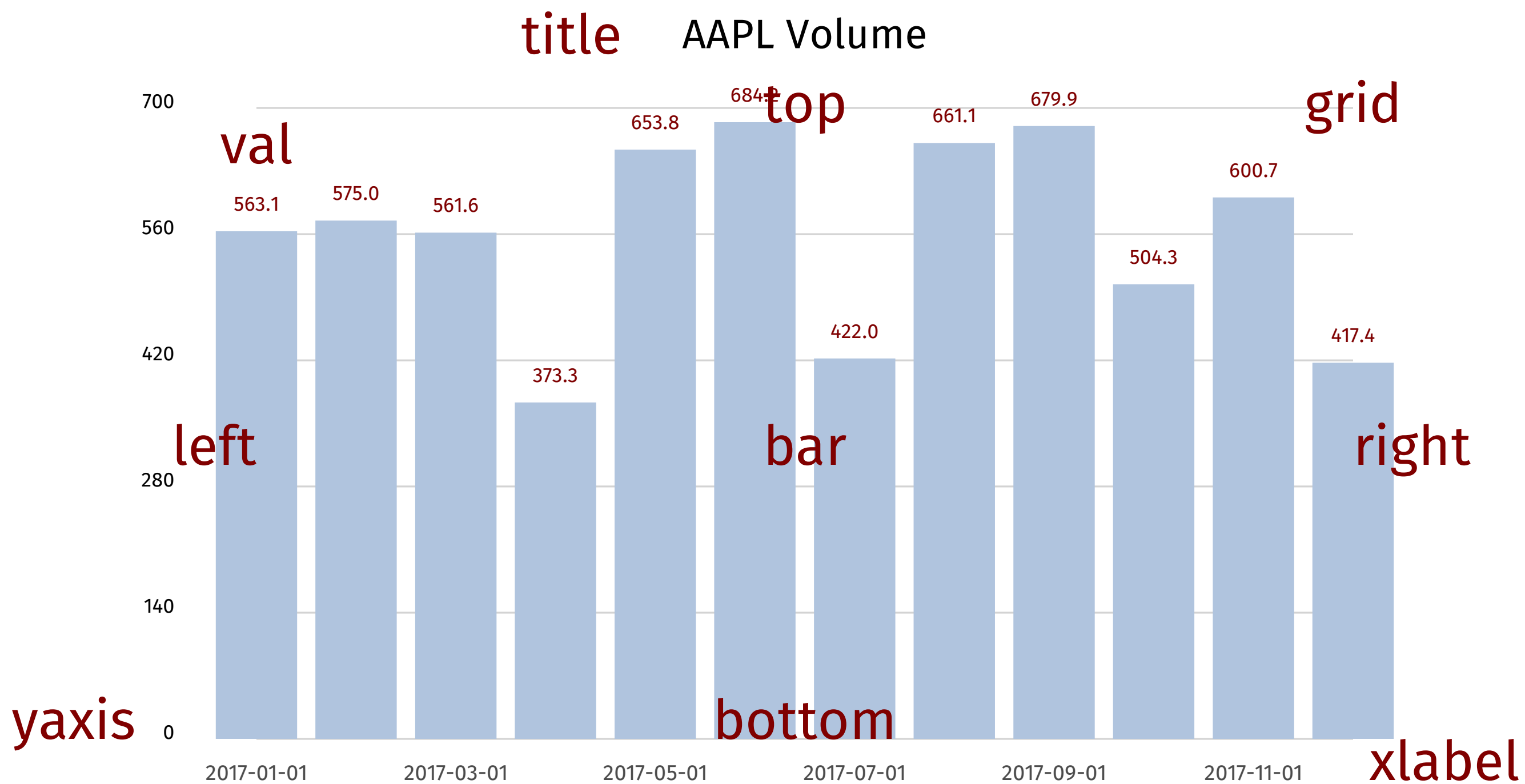
US Incarceration Rate



pgrid

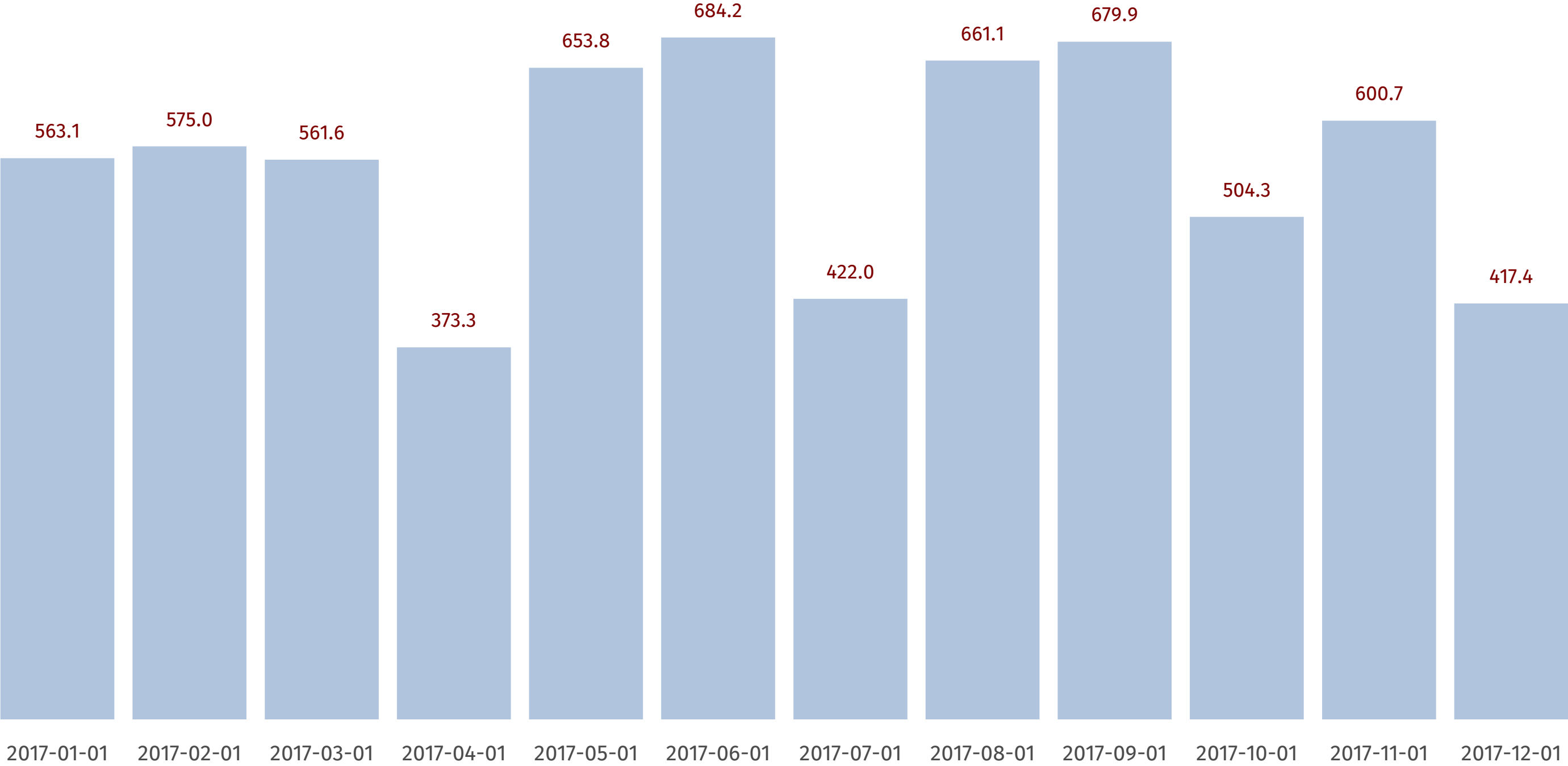
AAPL Volume





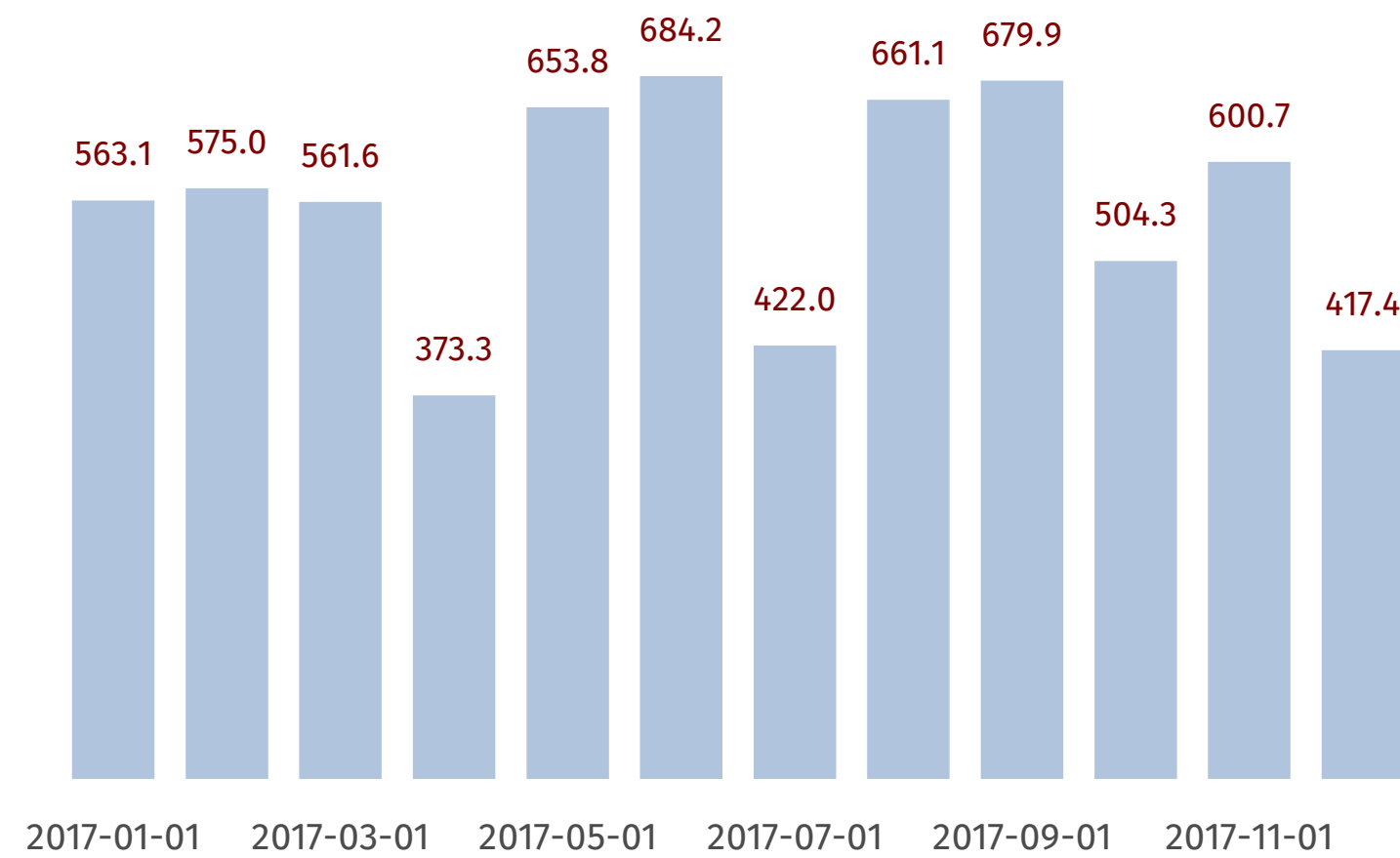
```
dchart -left=20 -right=80 -top=75 -yaxis -xlabel=2 -val -grid AAPL.d
```

AAPL Volume



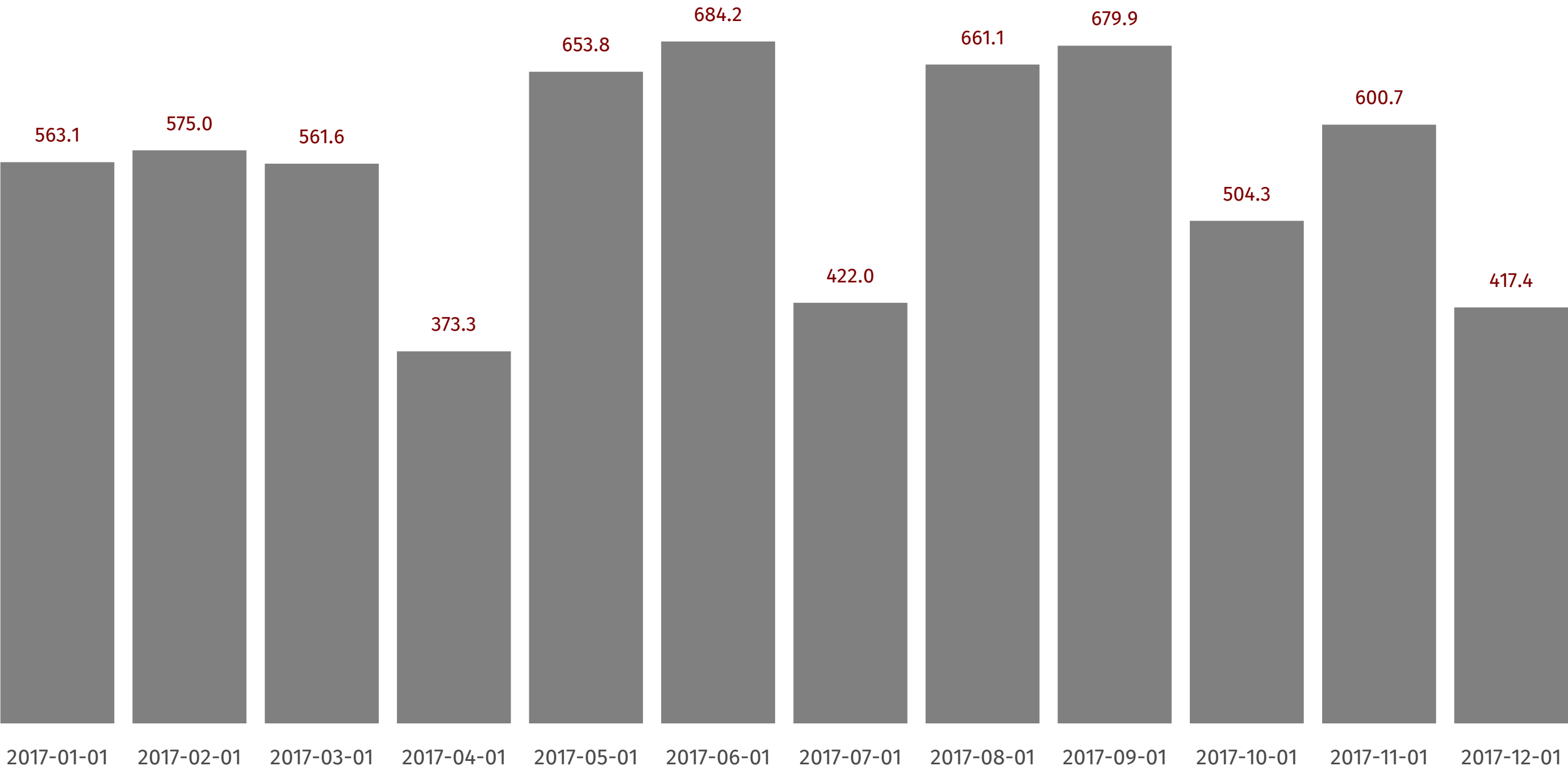
bar

AAPL Volume



scaled bar

AAPL Volume



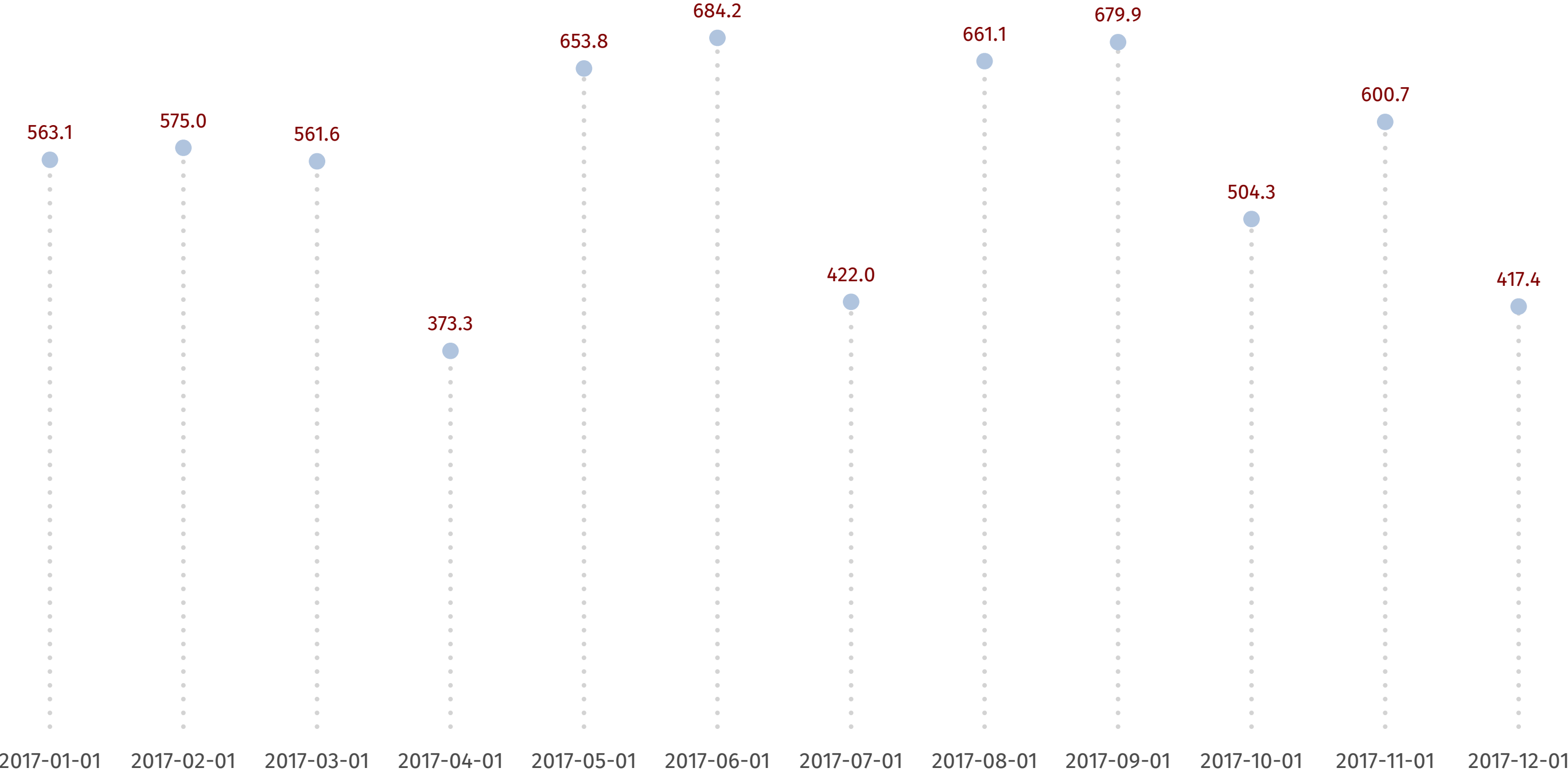
color change

AAPL Volume



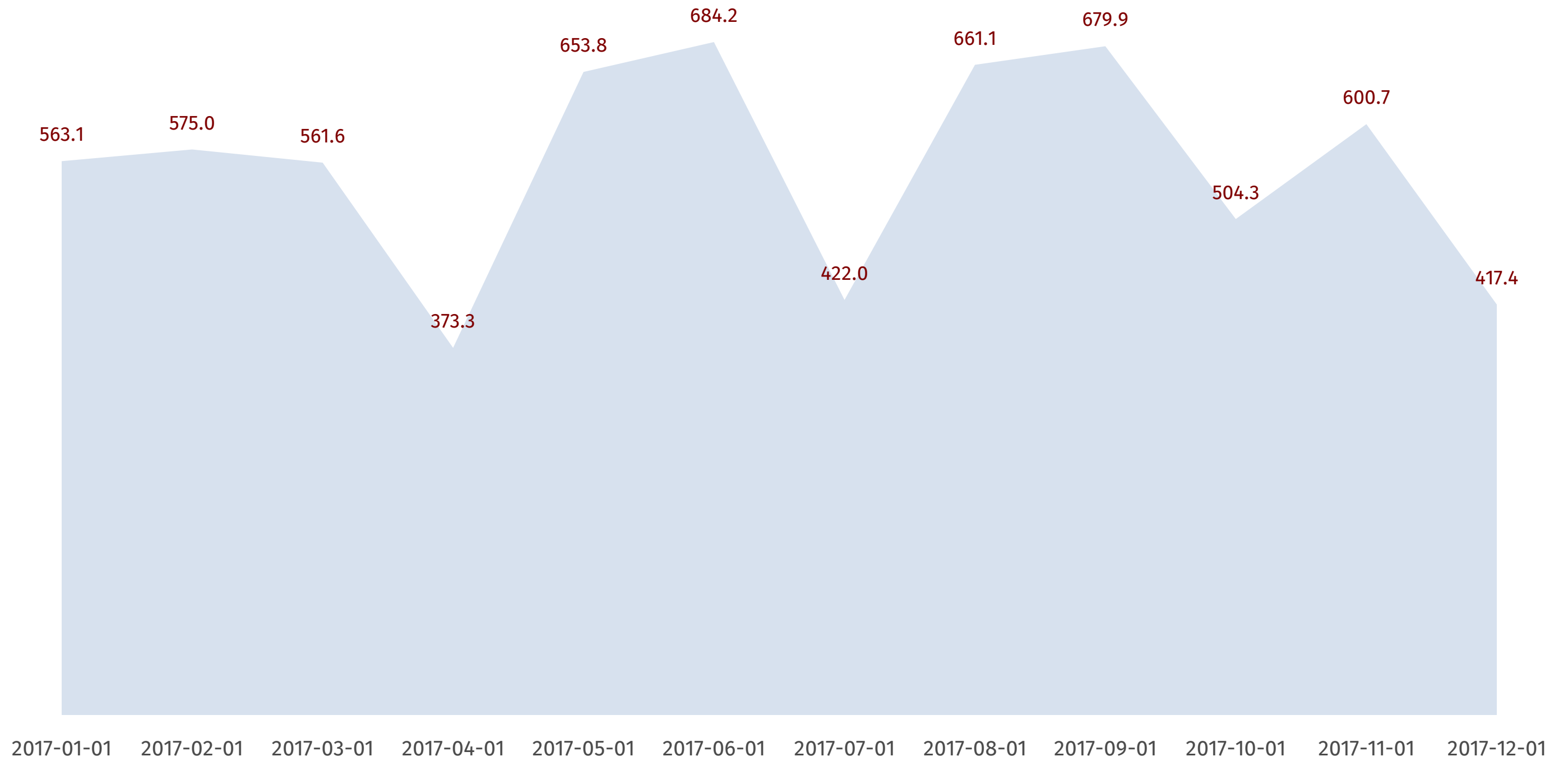
barwith change

AAPL Volume



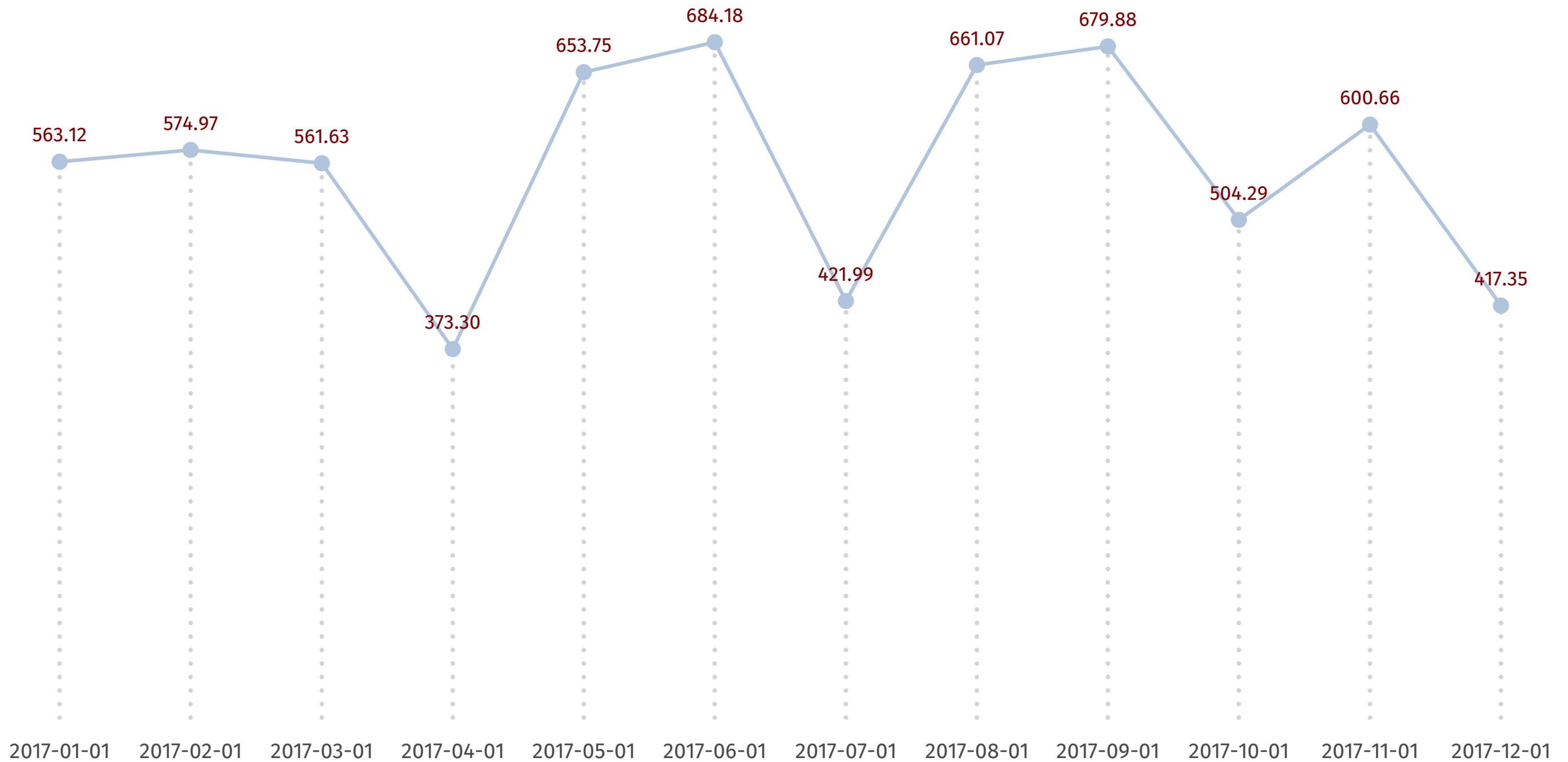
dot

AAPL Volume



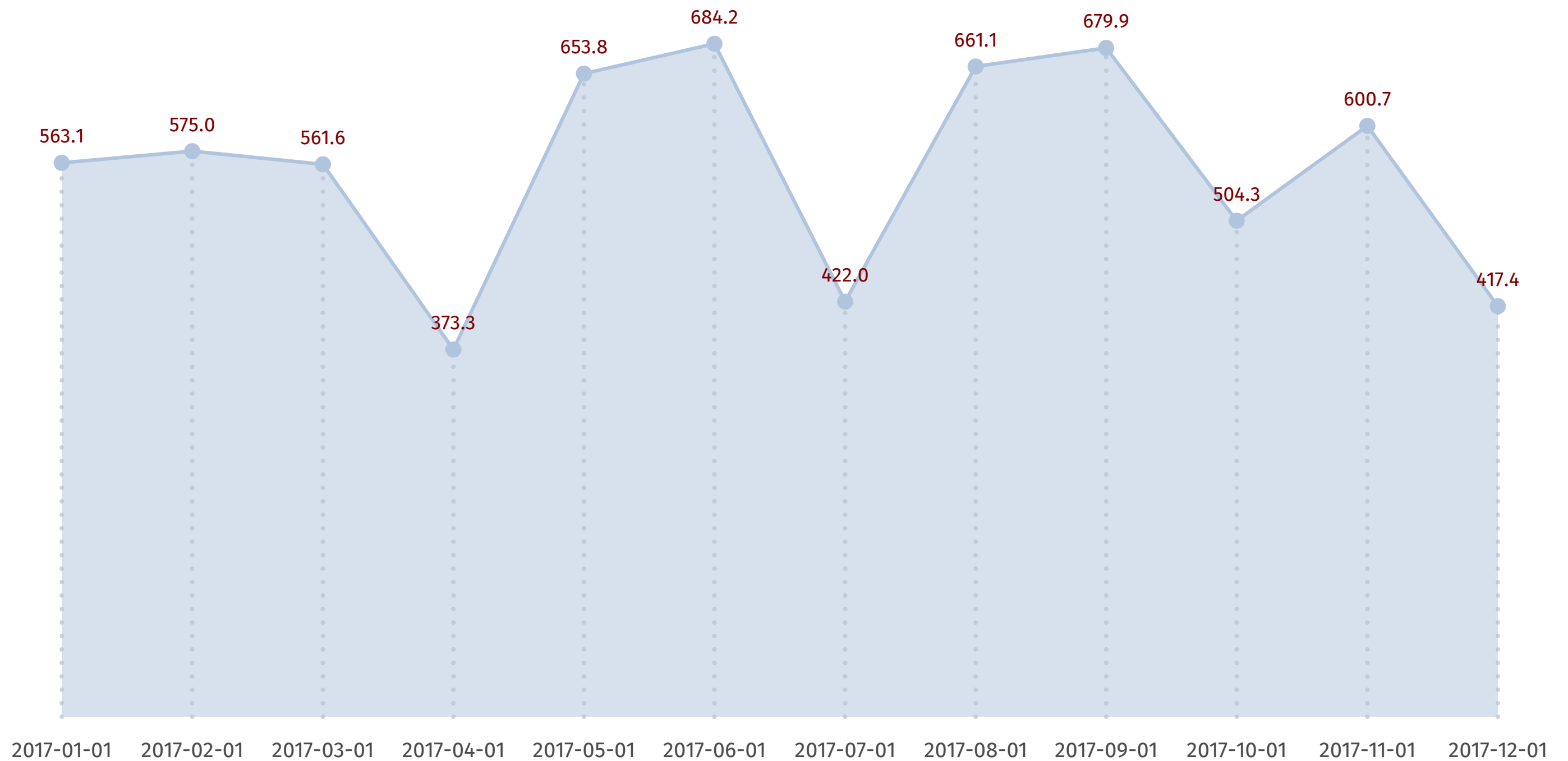
volume

AAPL Volume



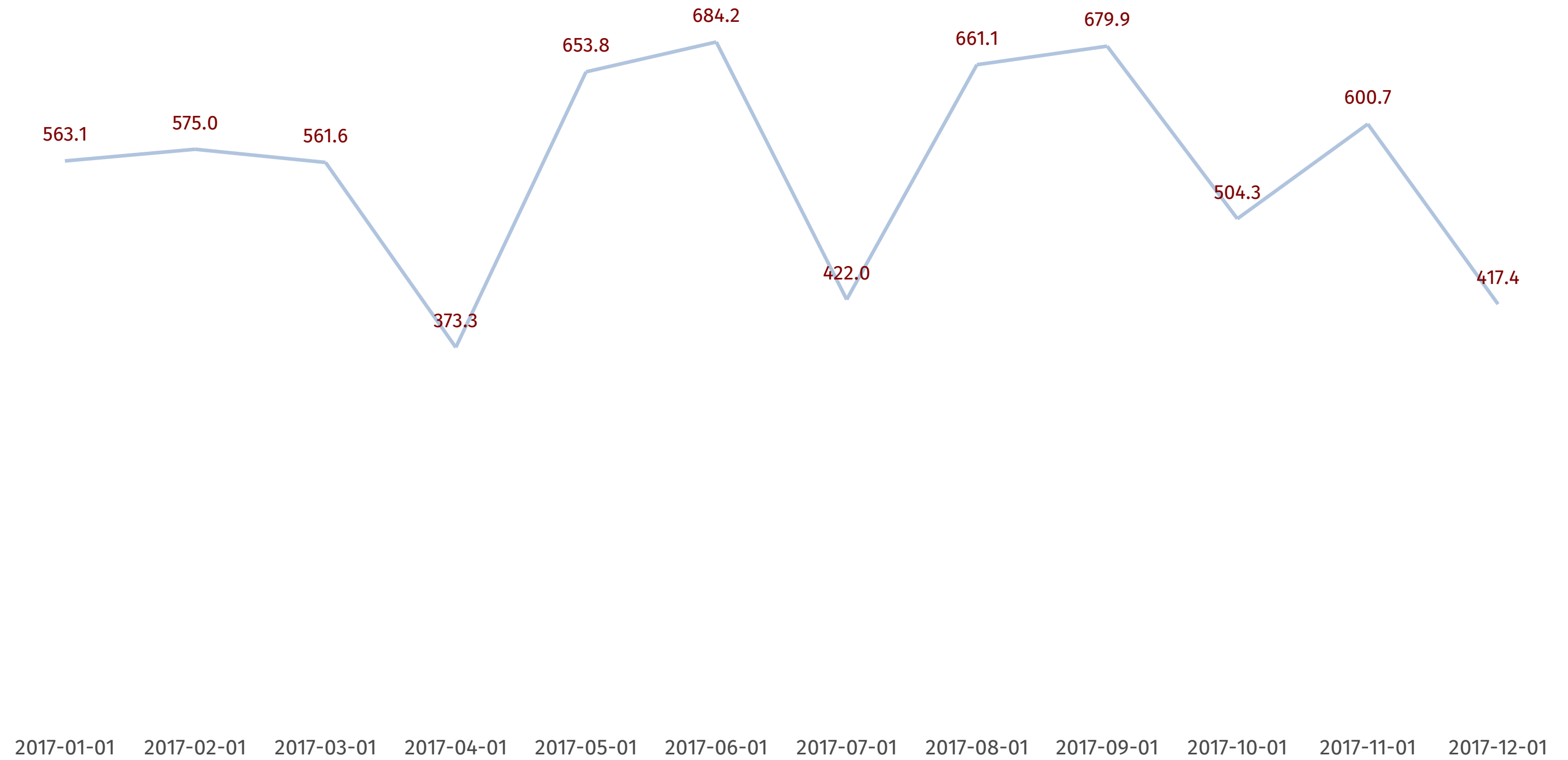
dot + line + value

AAPL Volume



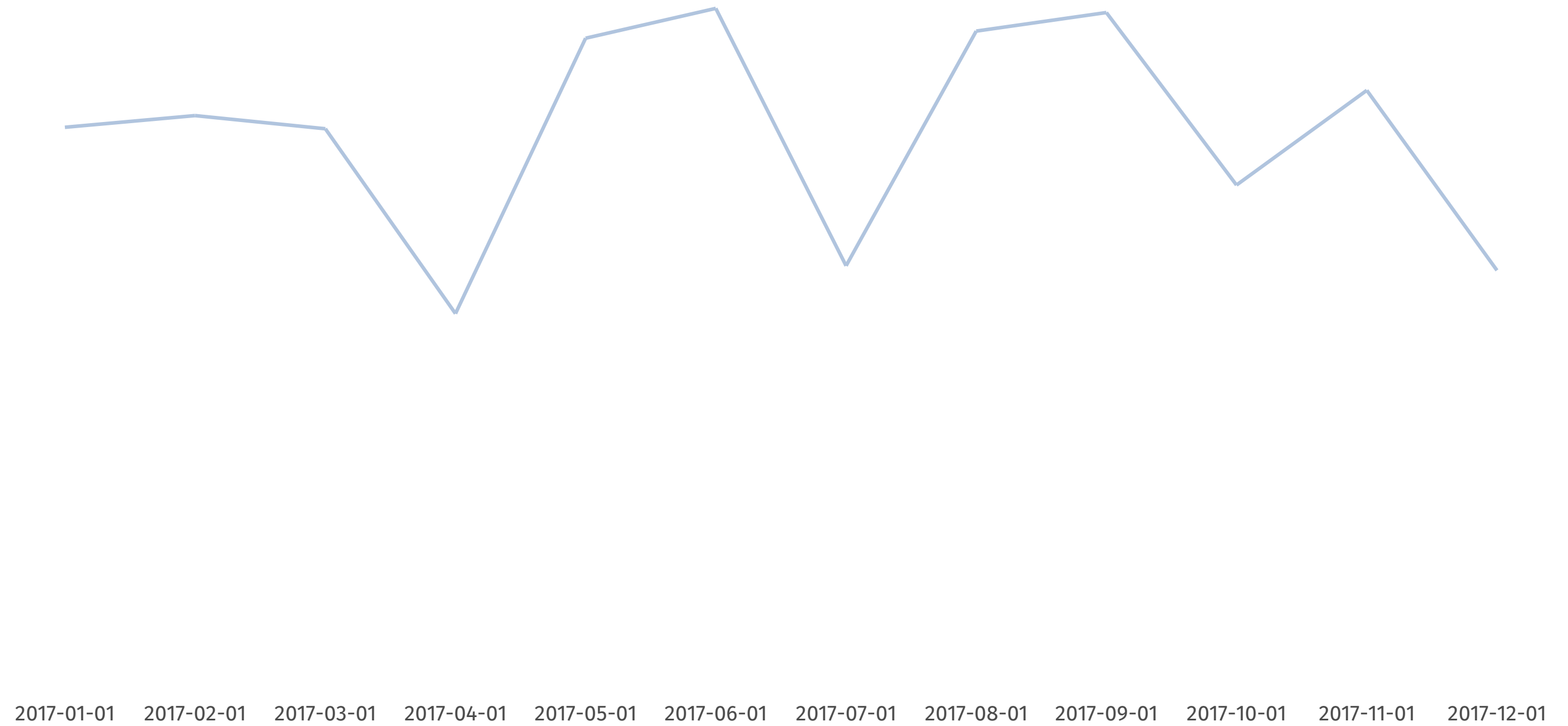
dot + line + value + volume

AAPL Volume



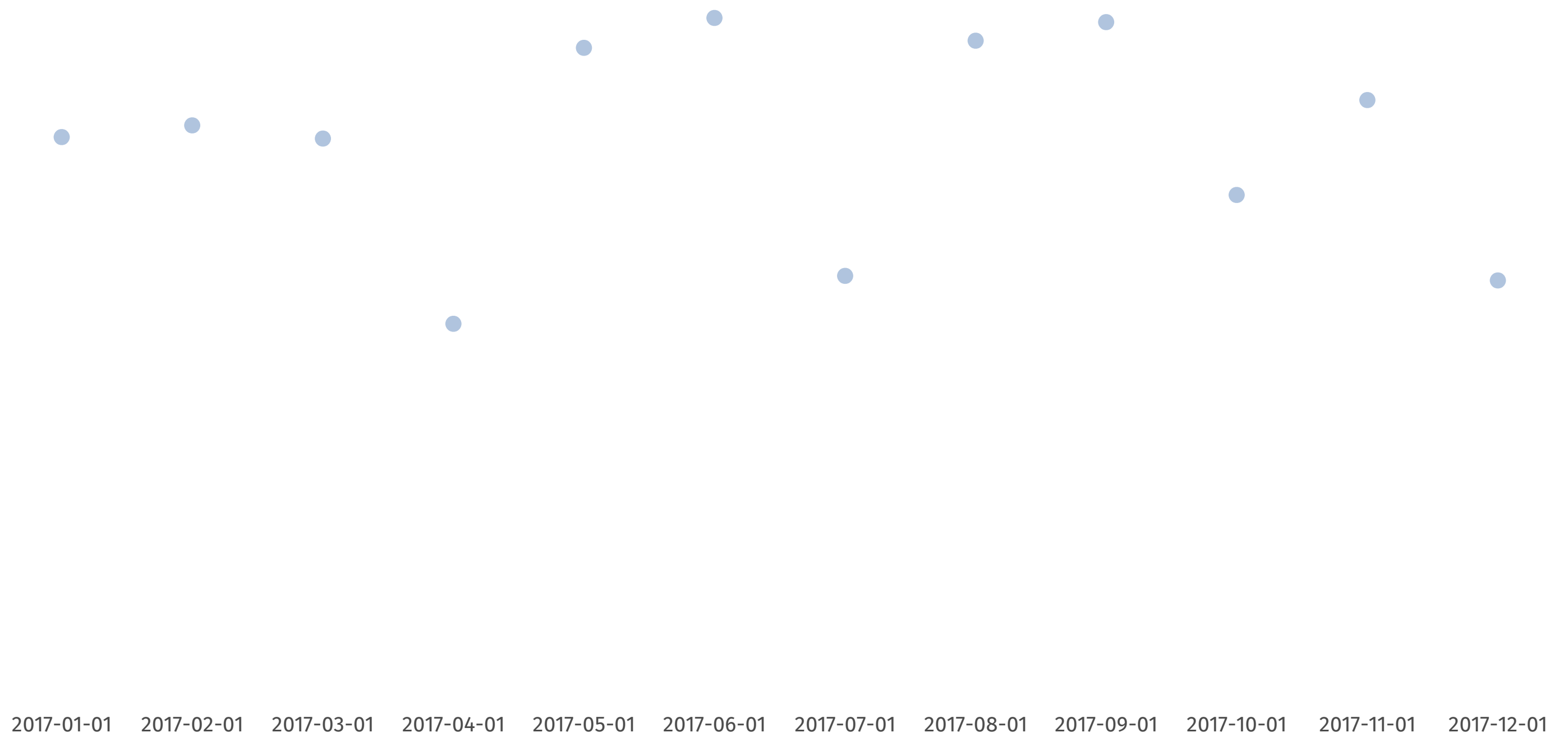
line + value

AAPL Volume



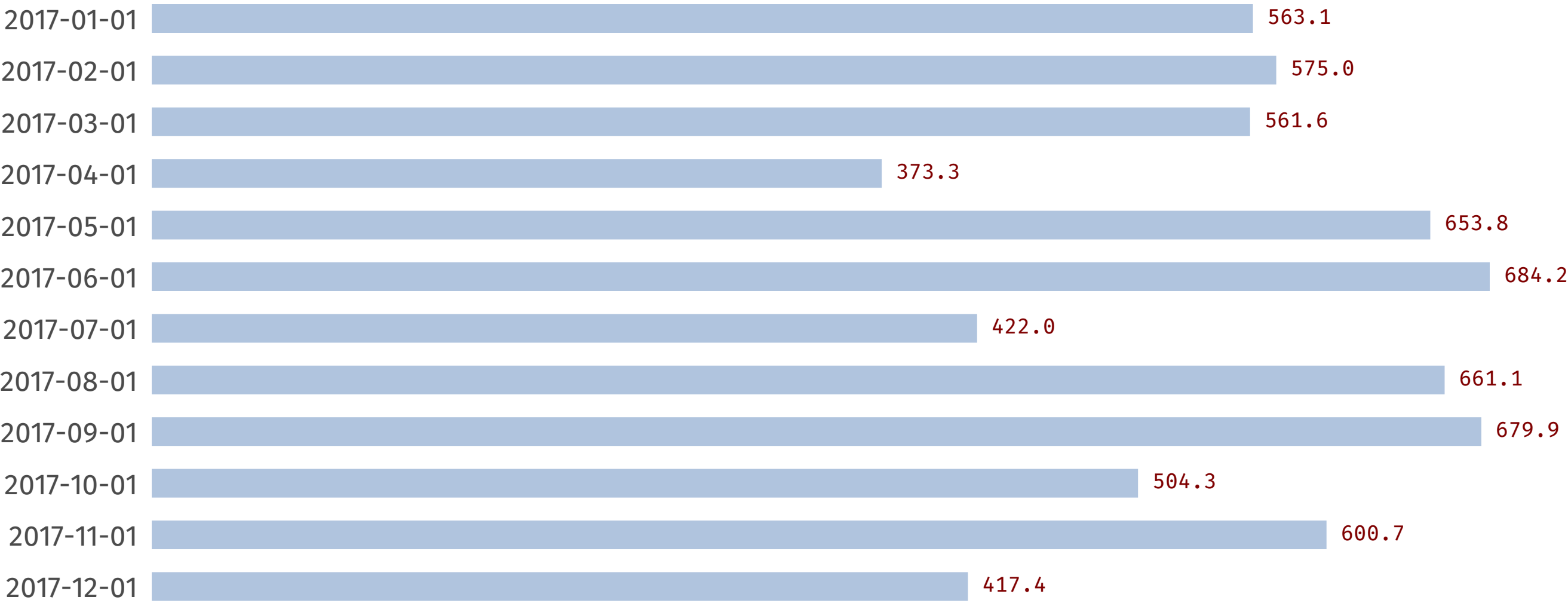
line only

AAPL Volume



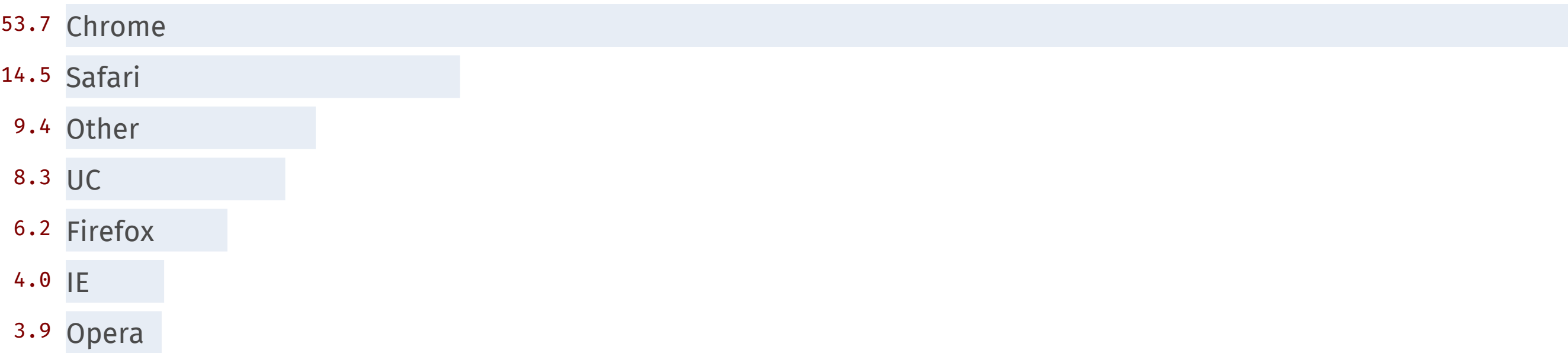
scatter

AAPL Volume

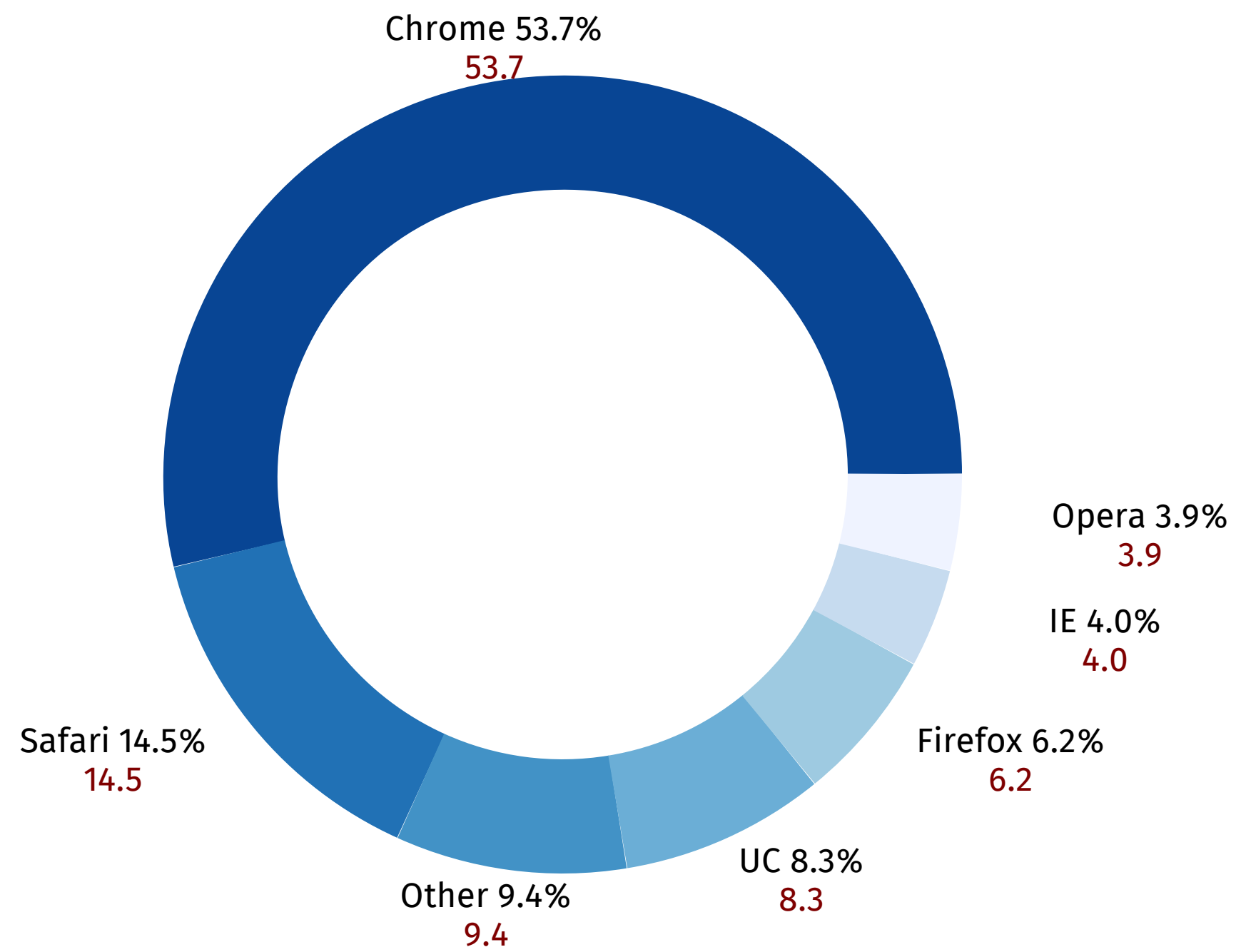


horizontal bar

Browser Market Share Dec 2016-Dec 2017

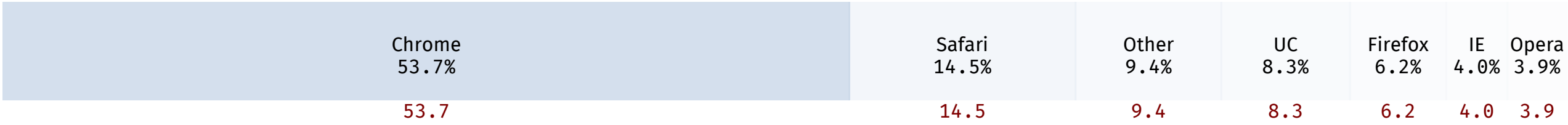


word bar



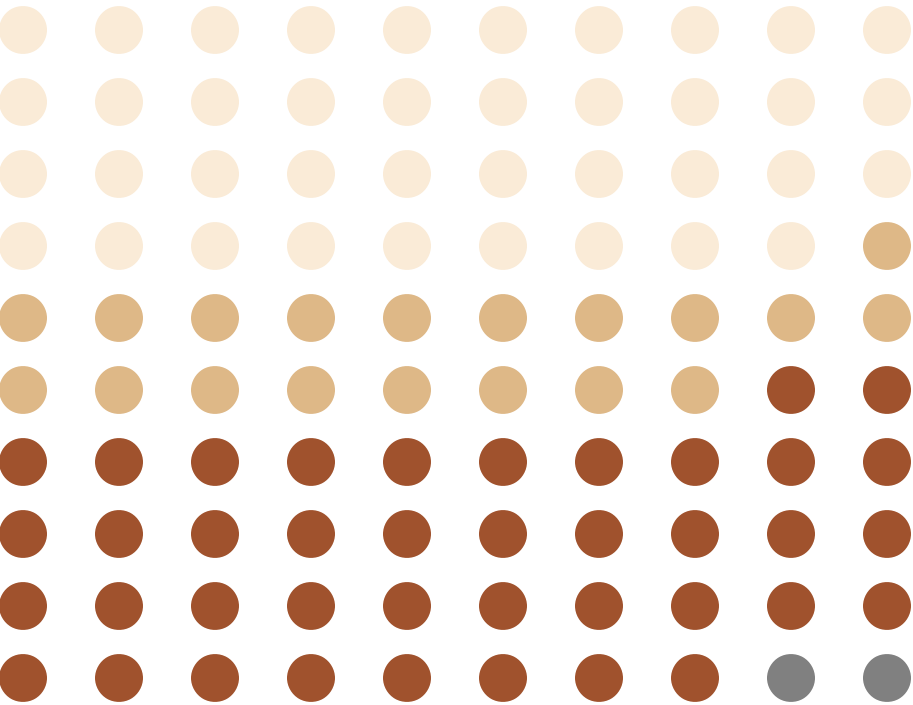
donut

Browser Market Share Dec 2016-Dec 2017



pmap

US Incarceration Rate



- White (39%)
- Hispanic (19%)
- Black (40%)
- Other (2%)

pgrid