

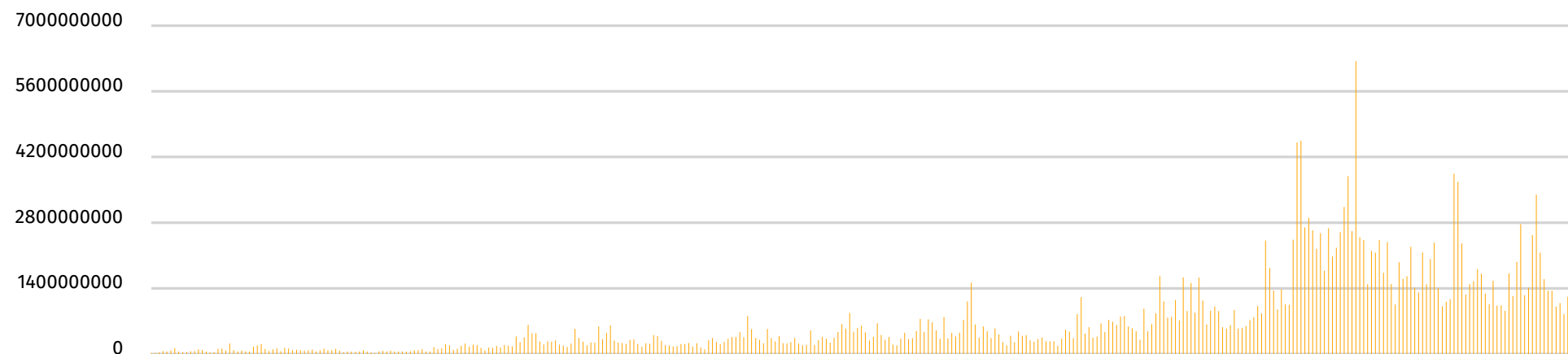
# dchart

charts for deck

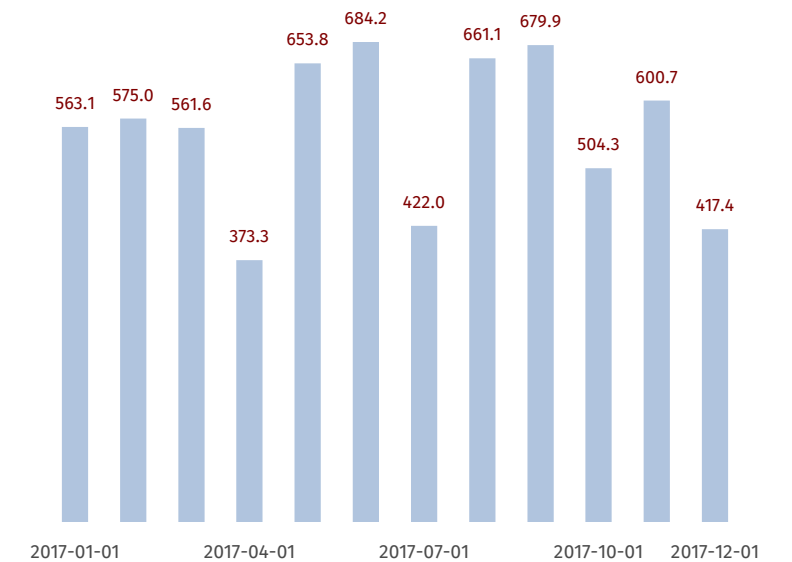
BITCOIN to USD



Volume



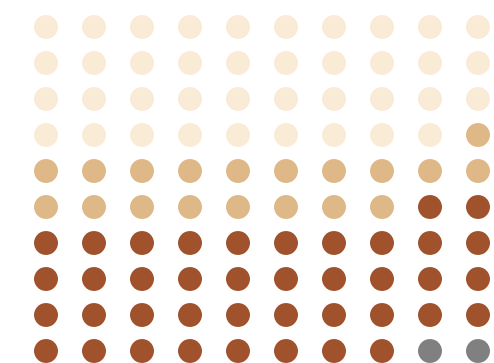
AAPL Volume



Browser Market Share Dec 2016-Dec 2017



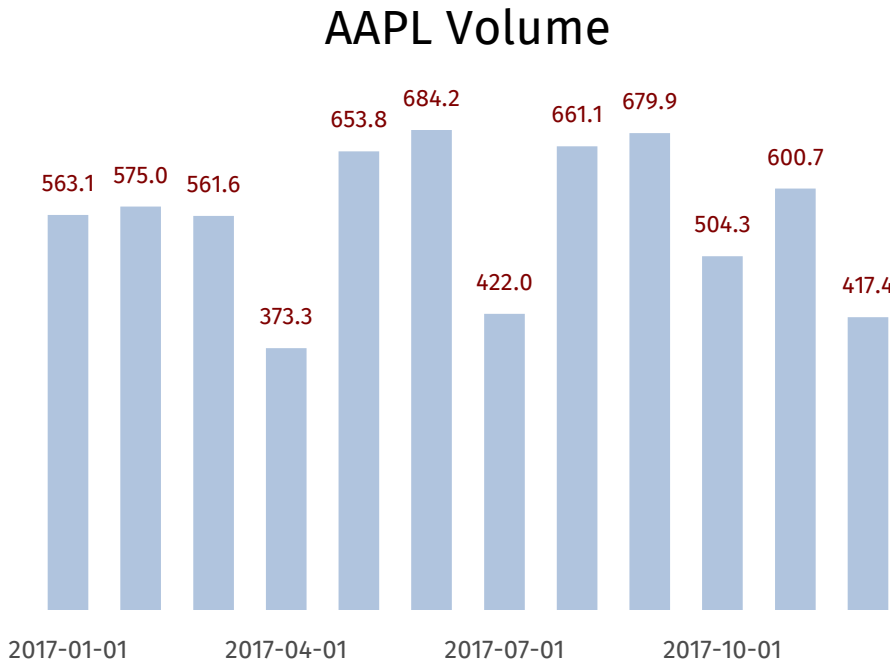
US Incarceration Rate



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
```

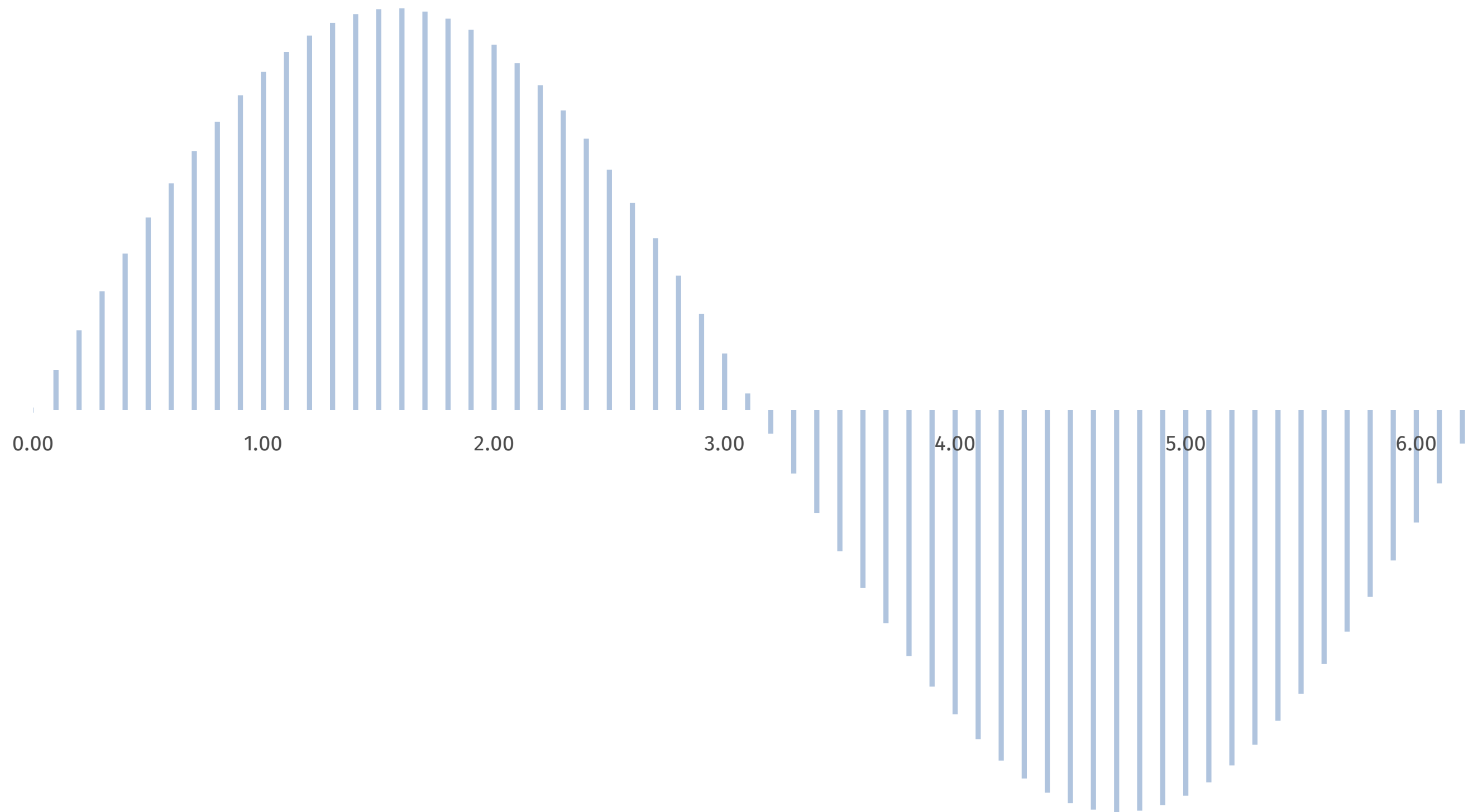
```
5.90     -0.3739
```

```
6.00     -0.2794
```

```
6.10     -0.1822
```

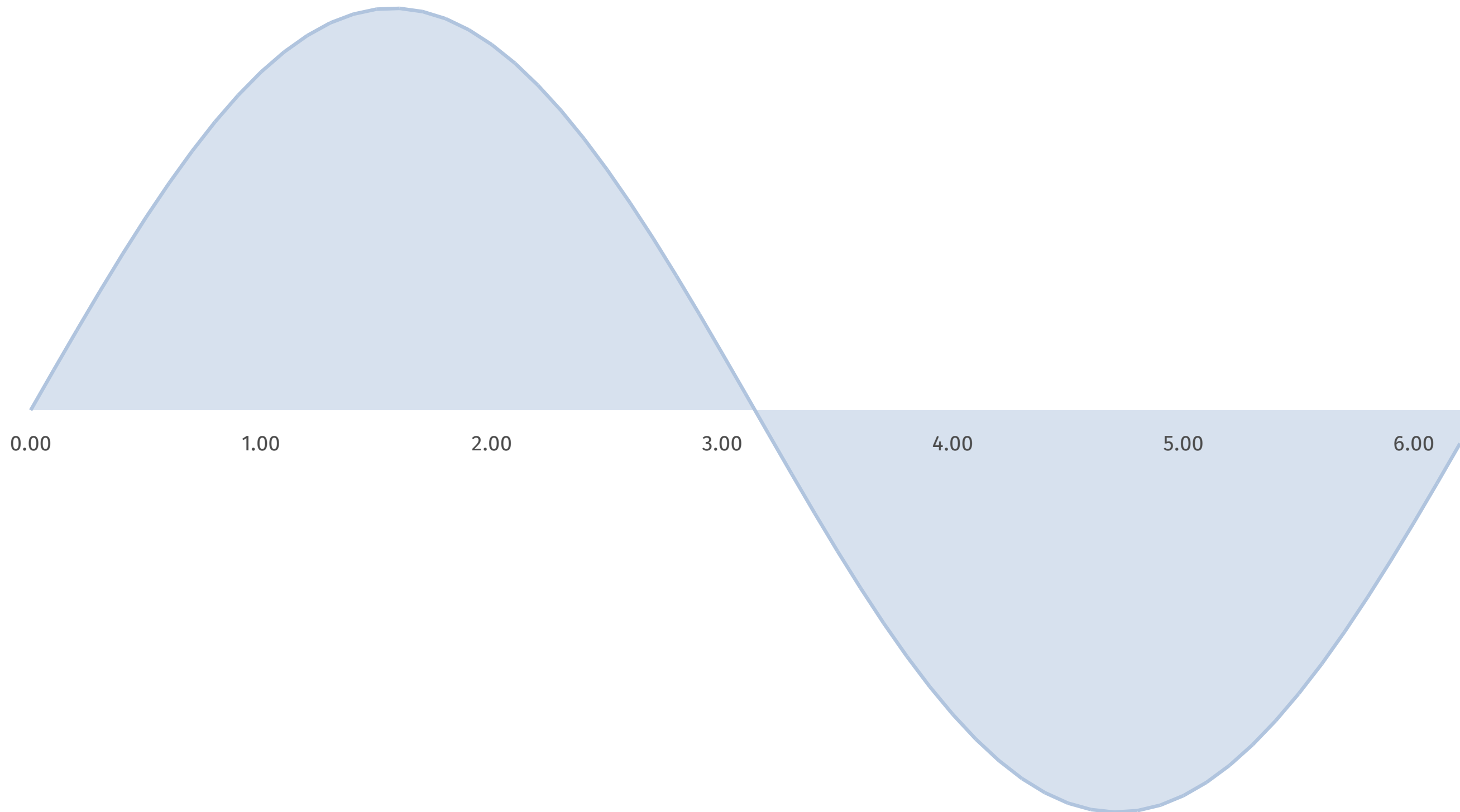
```
6.20     -0.0831
```

$$y=\sin(x)$$



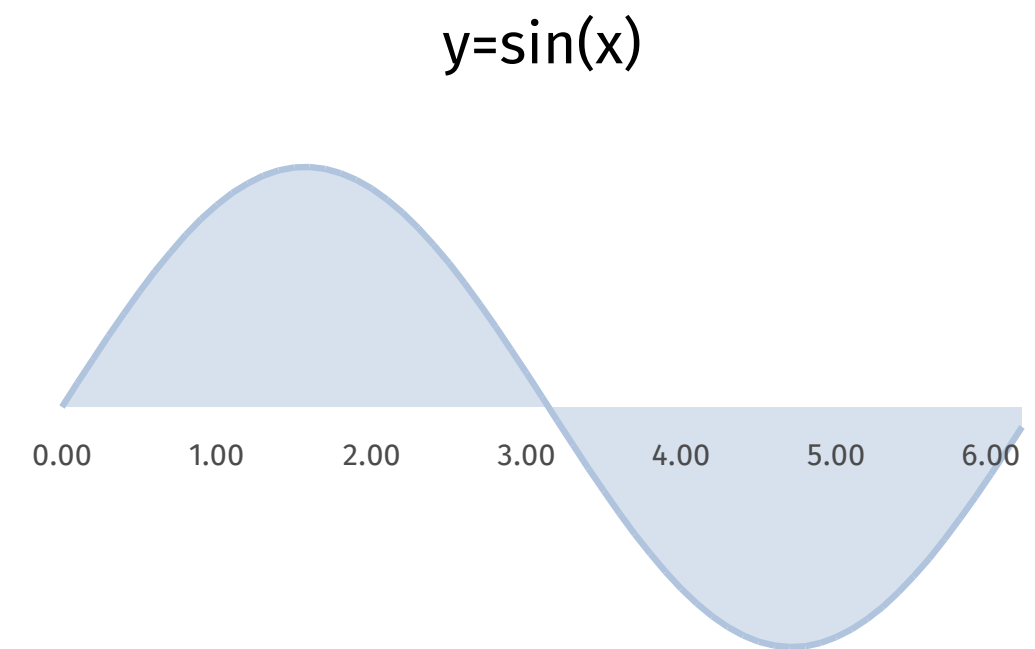
sine | dchart -val=f -bottom=50 -xlabel=10

$$y=\sin(x)$$

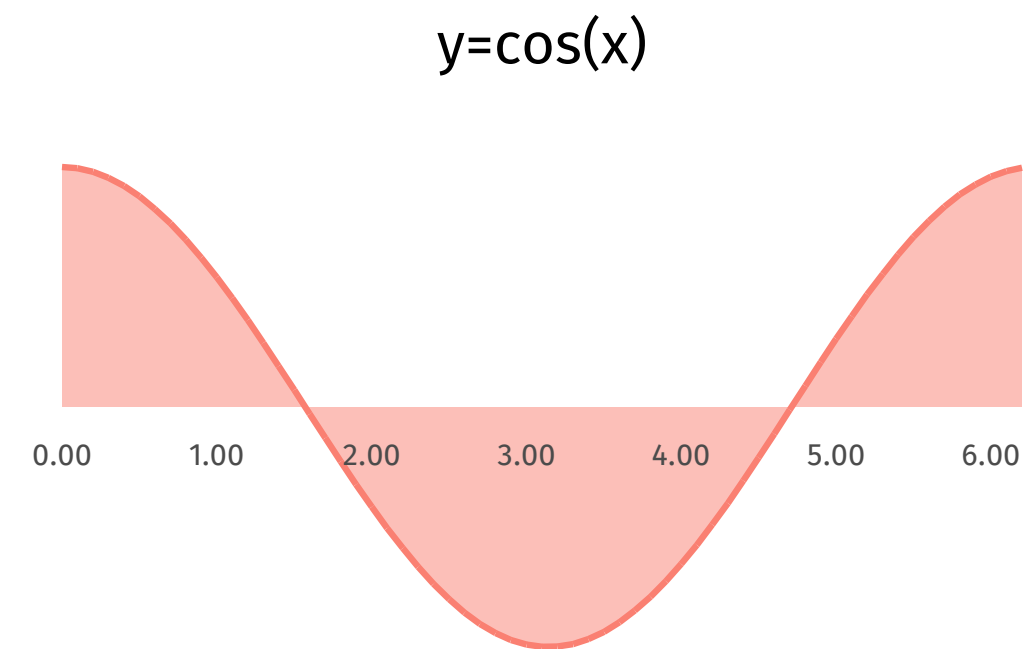


sine | dchart -val=f -bottom=50 -xlabel=10 -bar=f -line -vol

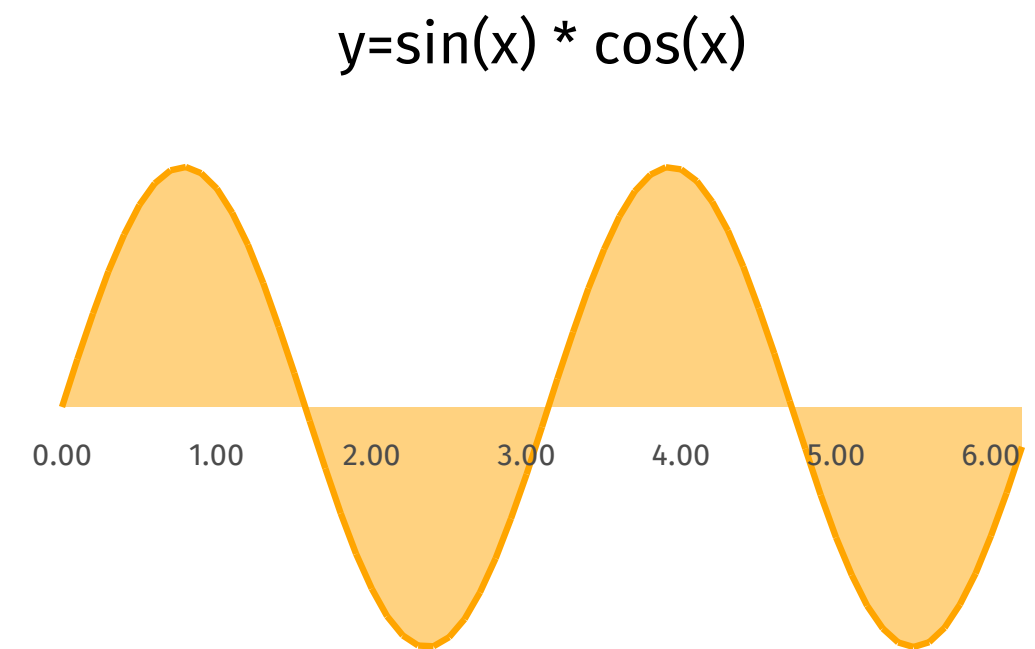
```
sine | dchart ... -top=90 -bottom=80
```



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



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



# Chart Types

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

# Position and Scaling

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

# CSV

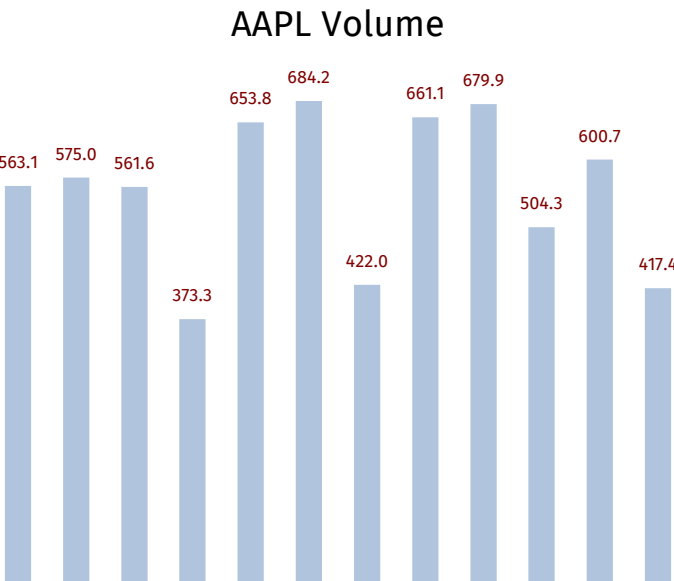
<b>-csv</b>	read CSV files (default false)
<b>-csvcol</b>	specify the columns to use for label,value

# Chart Elements

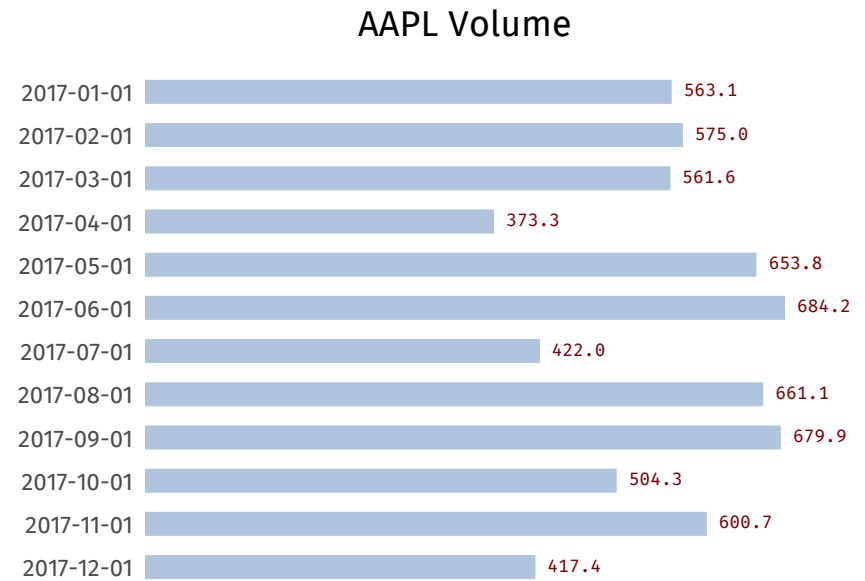
<b>-grid</b>	show gridlines on the y axis (default false)
<b>-val</b>	show values (default true)
<b>-valpos</b>	value position (t=top, b=bottom, m=middle) (default "t")
<b>-yaxis</b>	show a y axis (default true)
<b>-yrange</b>	specify the y axis labels (min,max,step)
<b>-fulldeck</b>	generate full deck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

# Measures and Attributes

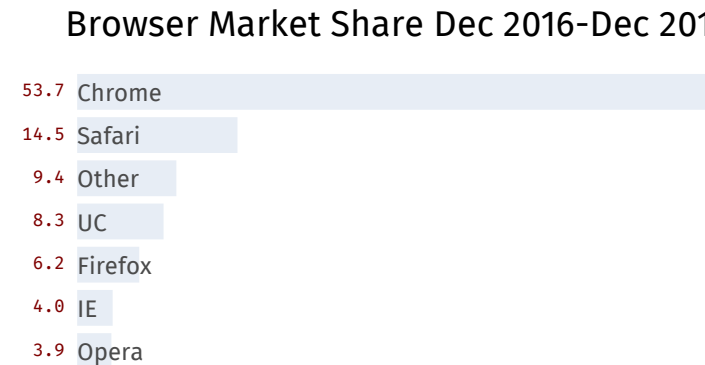
<b>-barwidth</b>	barwidth (default computed from data size)
<b>-ls</b>	linespacing (default 2.4)
<b>-textsize</b>	text size (default 1.5)
<b>-color</b>	data color (default "lightsteelblue")
<b>-vcolor</b>	value color (default "rgb(127,0,0)")
<b>-datafmt</b>	data format for values (default "%.1f")
<b>-psize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



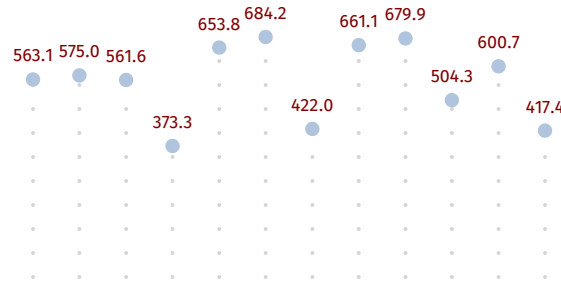
bar



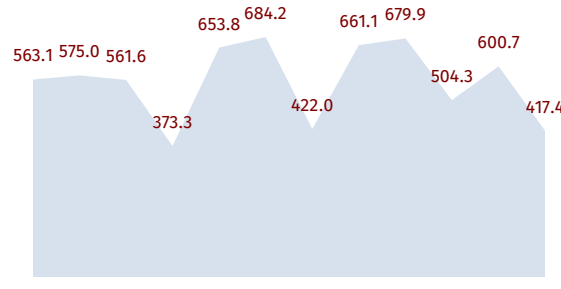
hbar



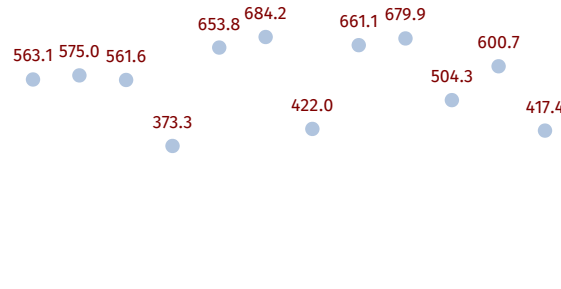
wbar



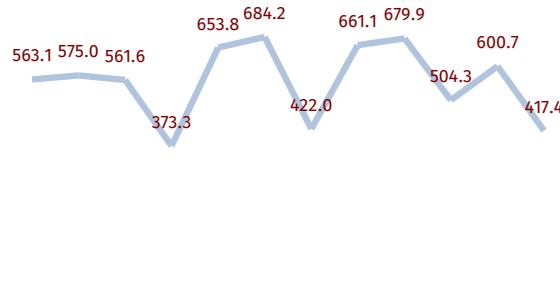
dot



vol

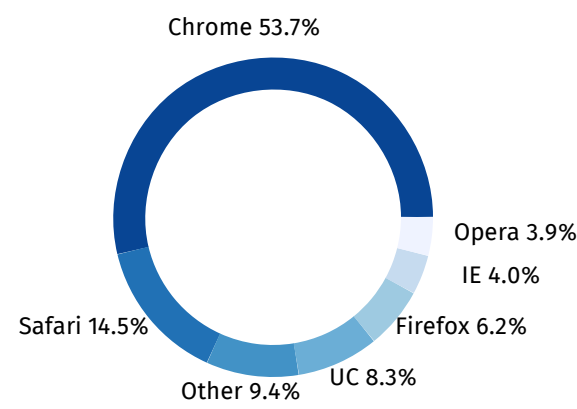


scatter



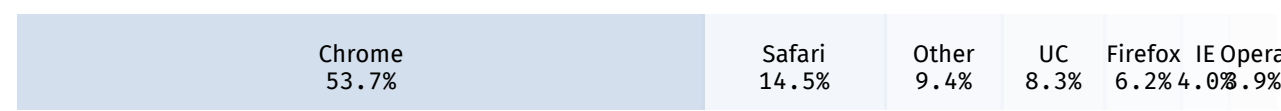
line

Browser Market Share Dec 2016-Dec 2017



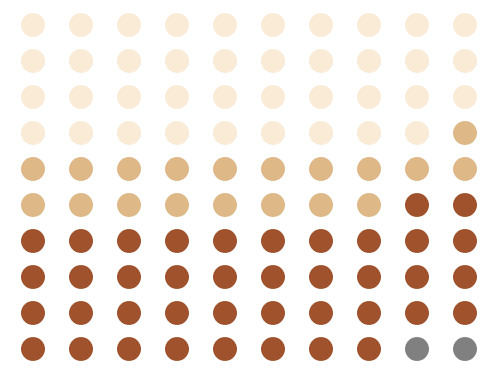
donut

Browser Market Share Dec 2016-Dec 2017



pmap

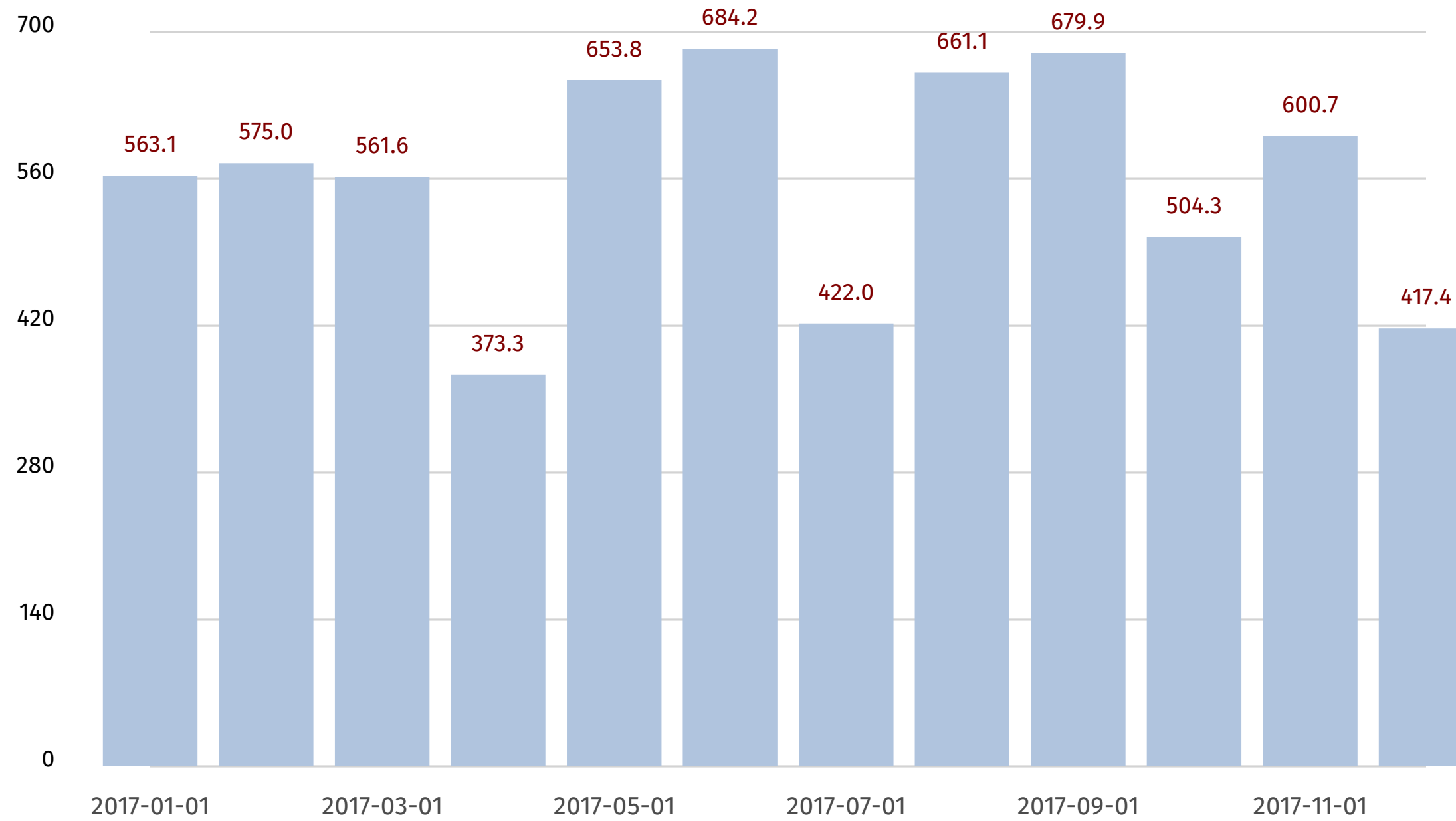
US Incarceration Rate

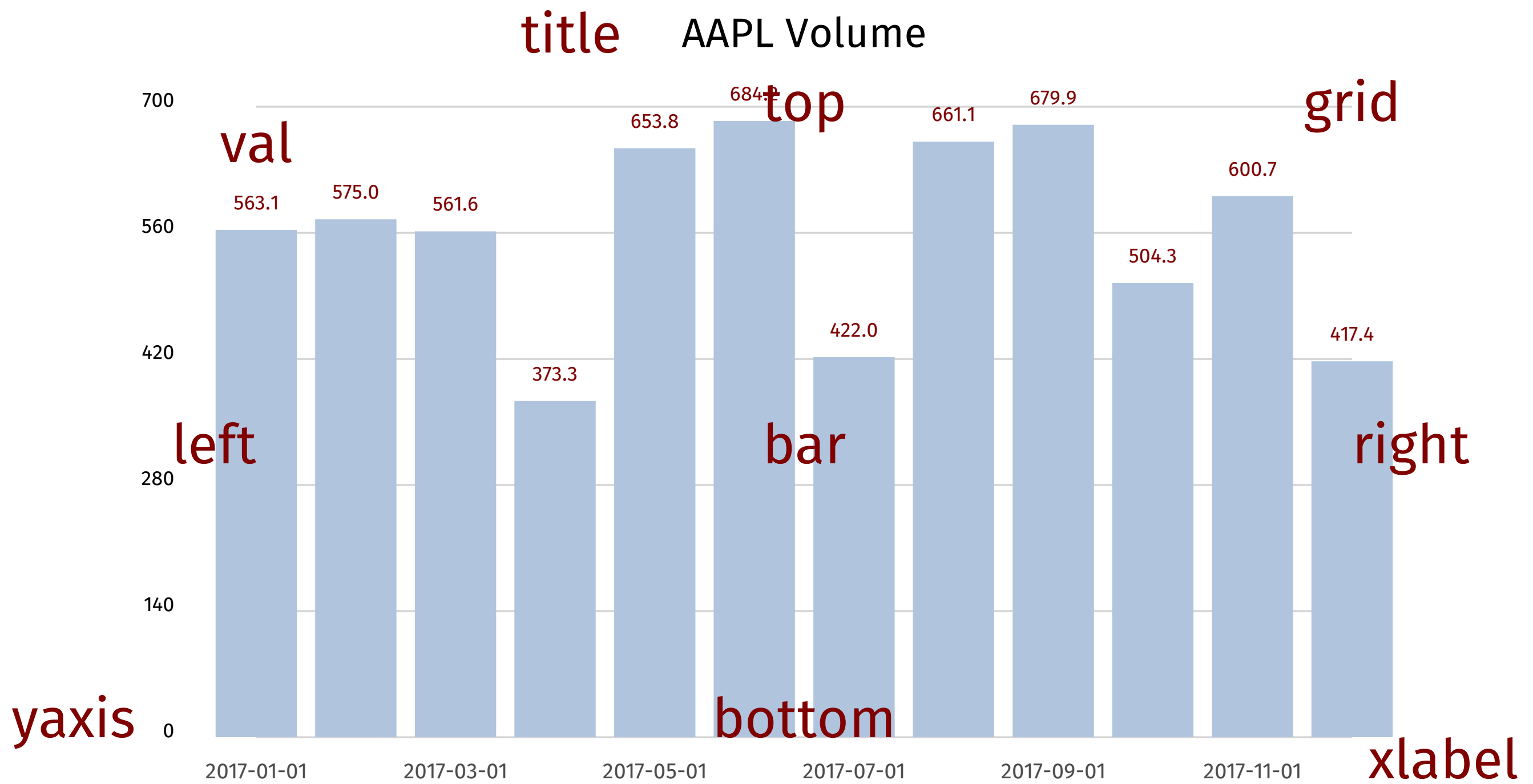


pgrid



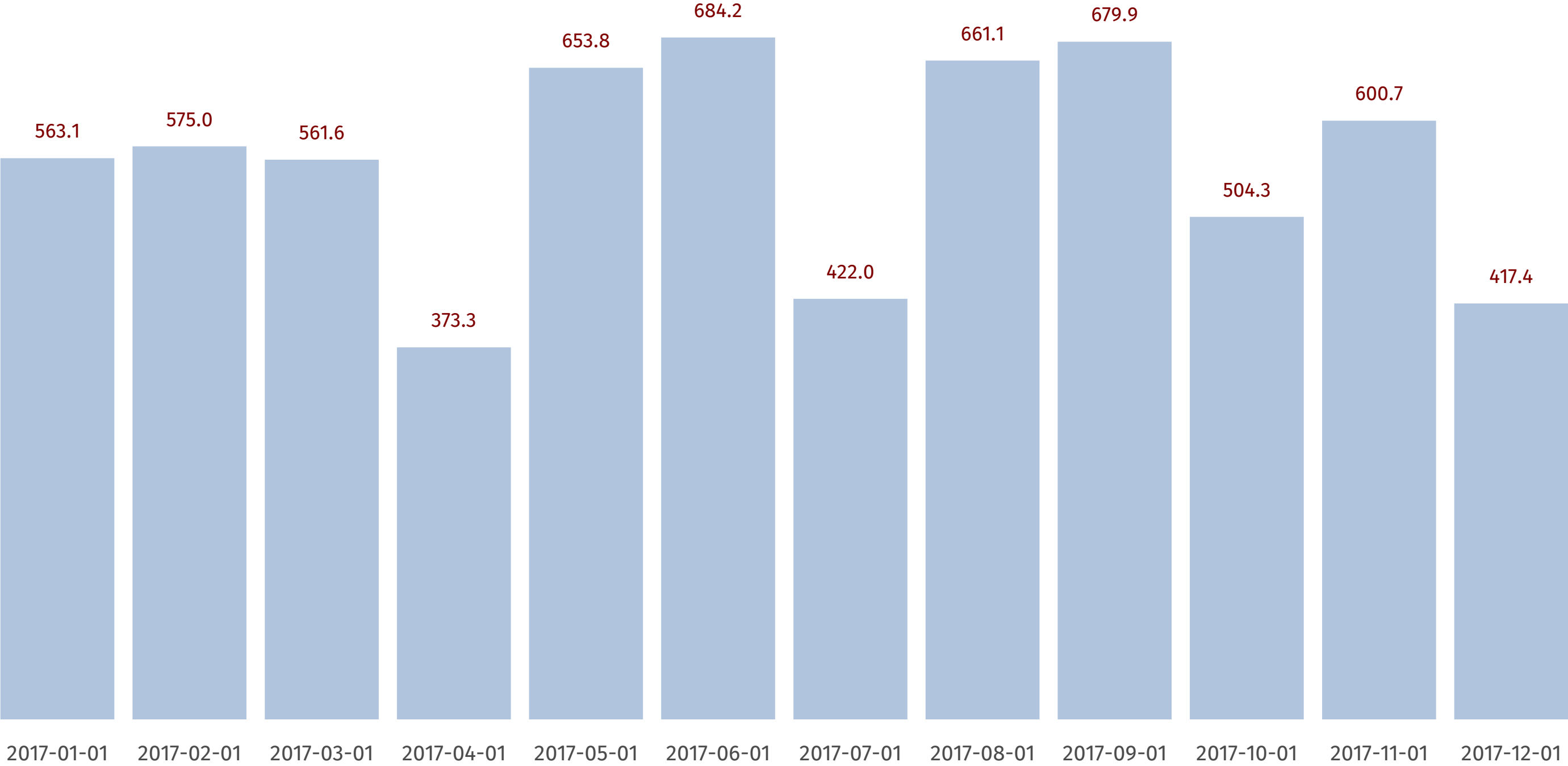
# AAPL Volume





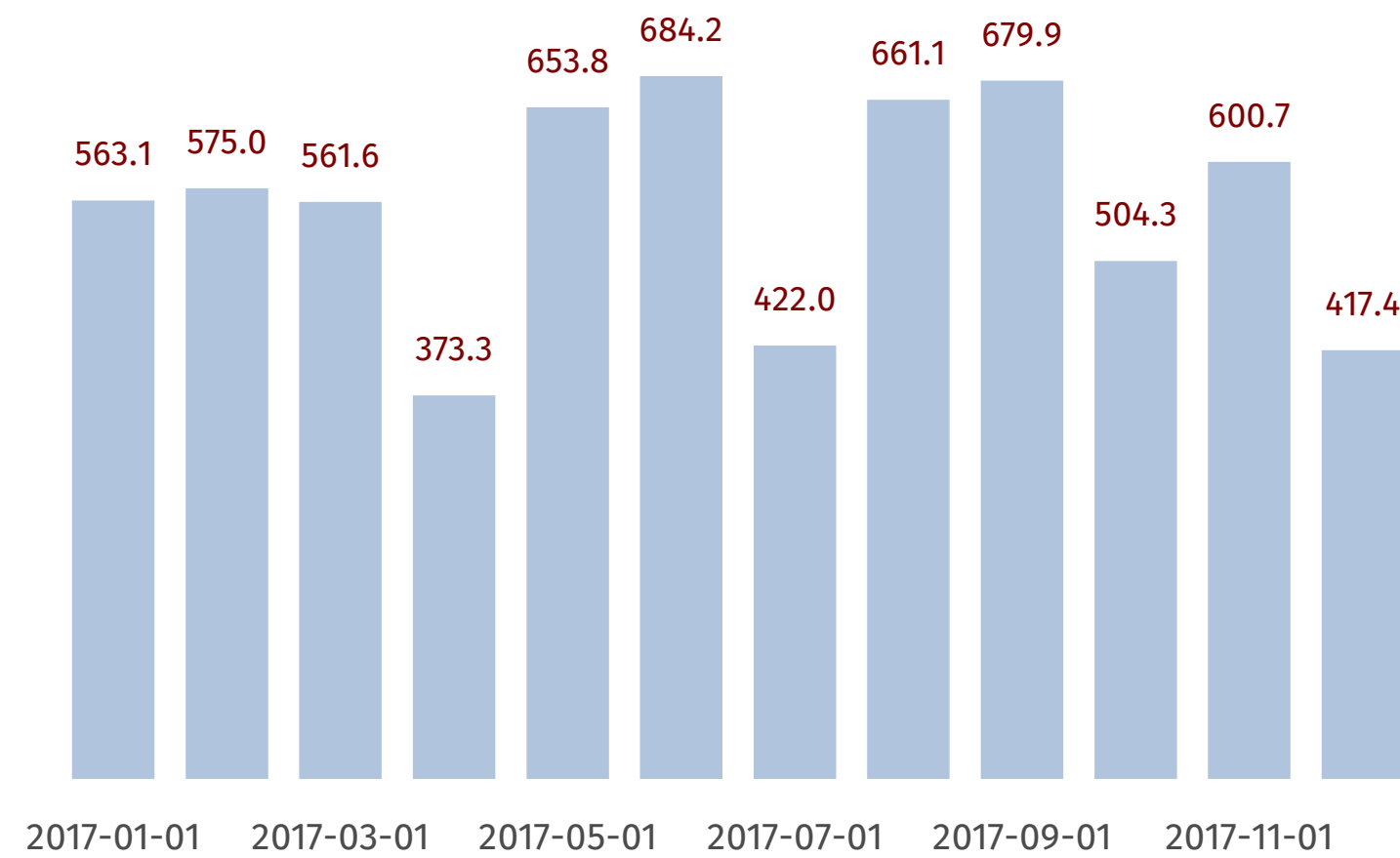
```
dchart -left=20 -right=80 -top=75 -yaxis -xlabel=2 -val -grid AAPL.d
```

# AAPL Volume



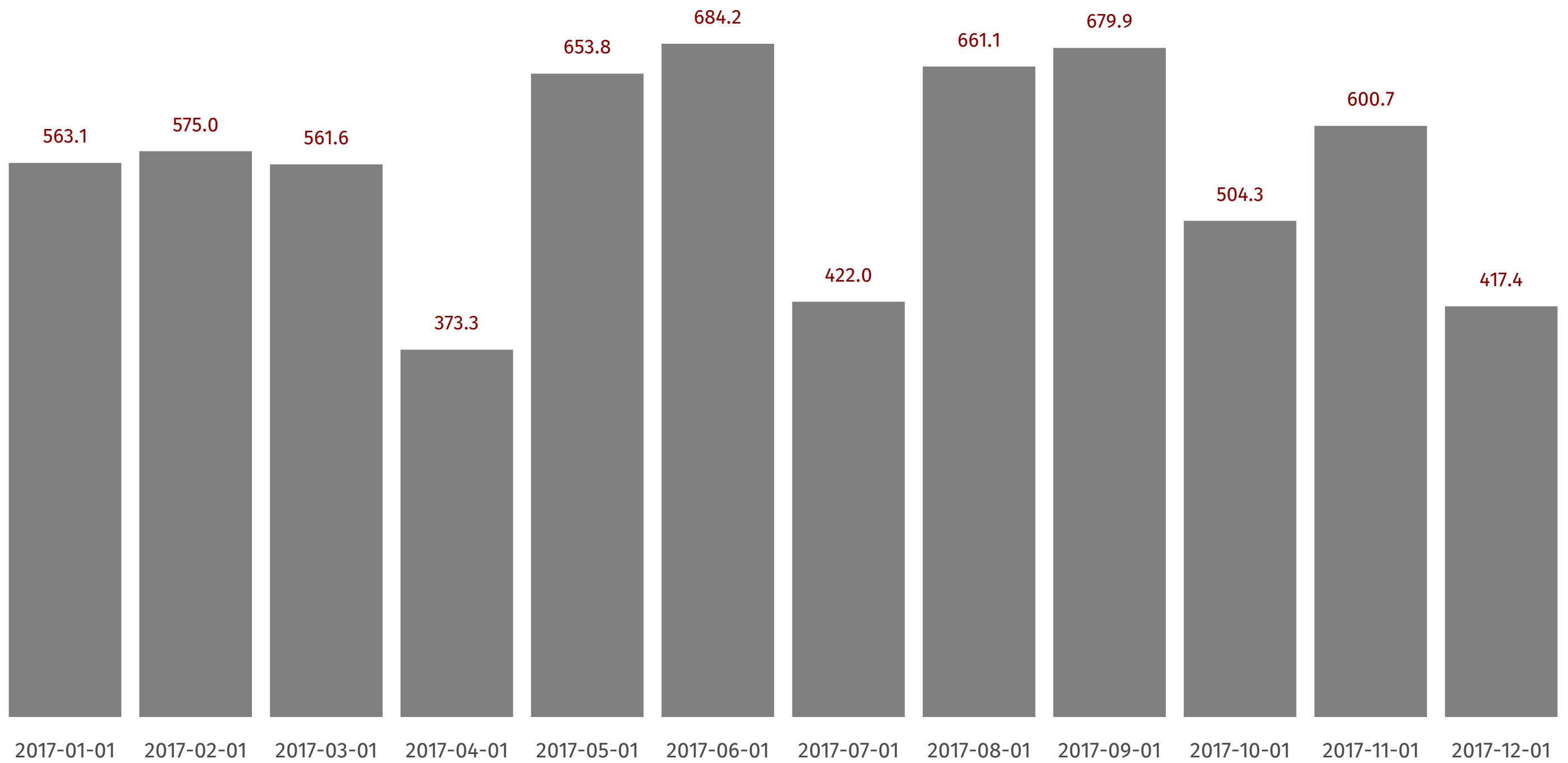
bar

## AAPL Volume



scaled bar

## AAPL Volume



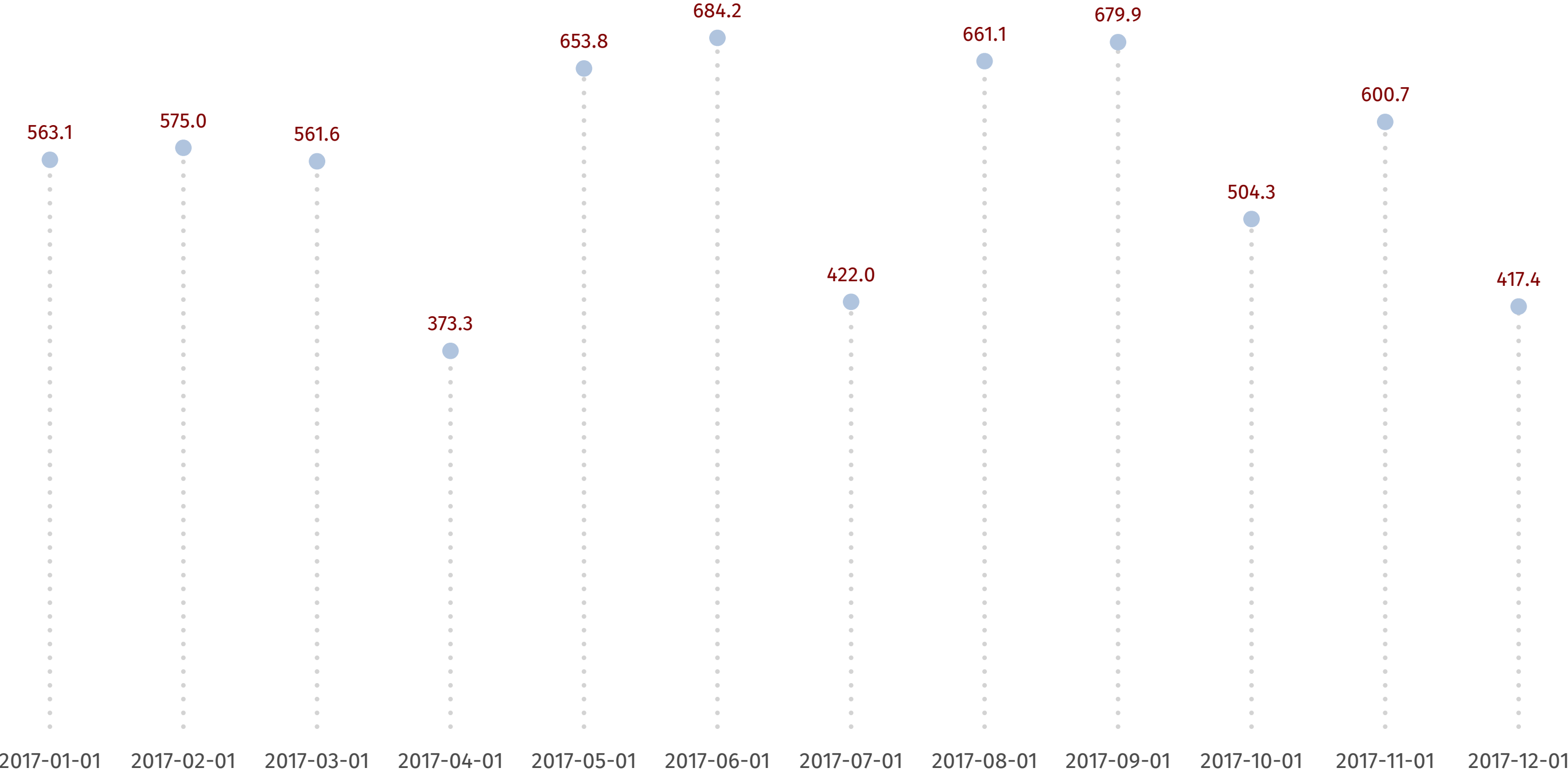
color change

## AAPL Volume



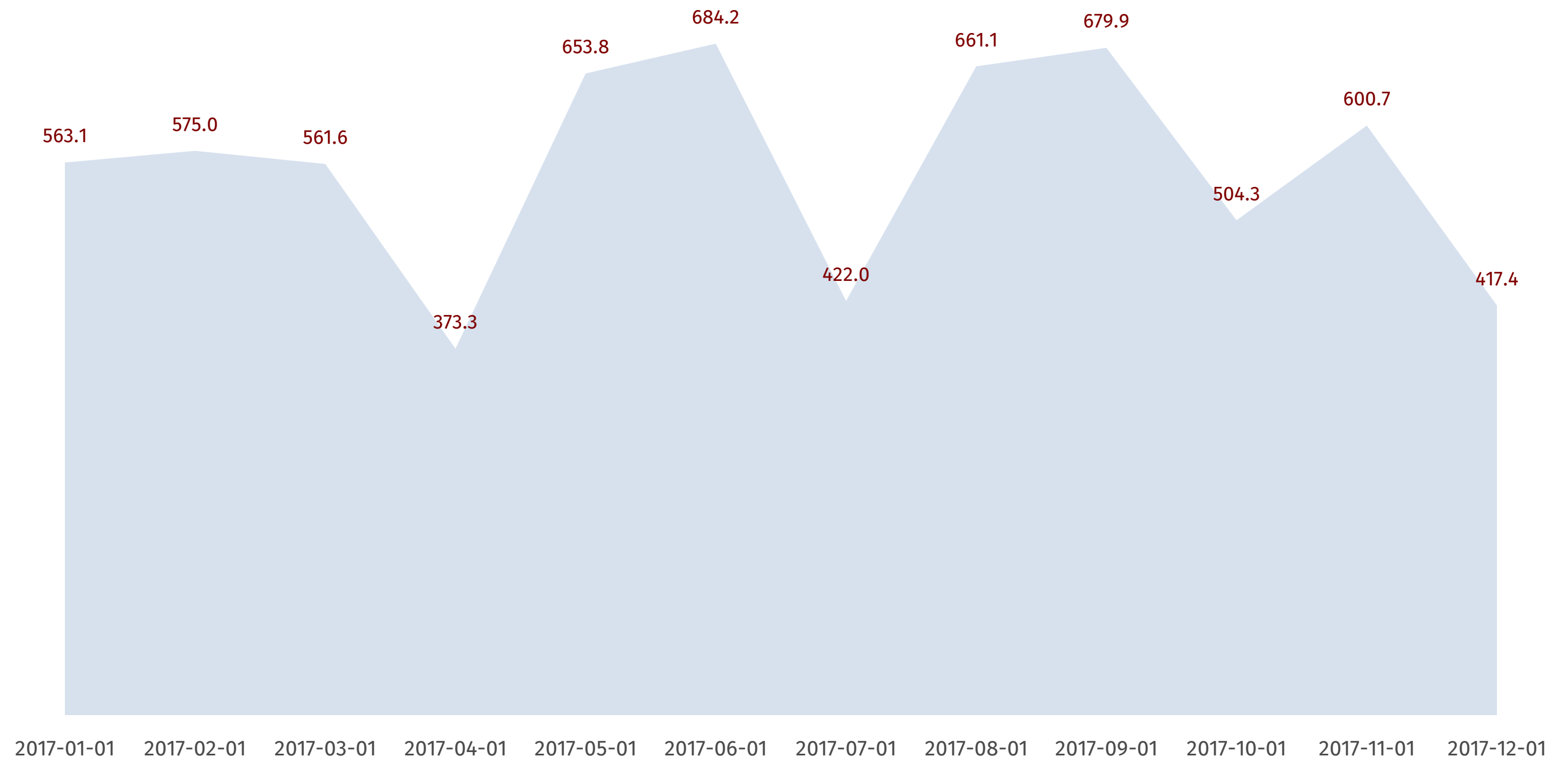
barwith change

# AAPL Volume



dot

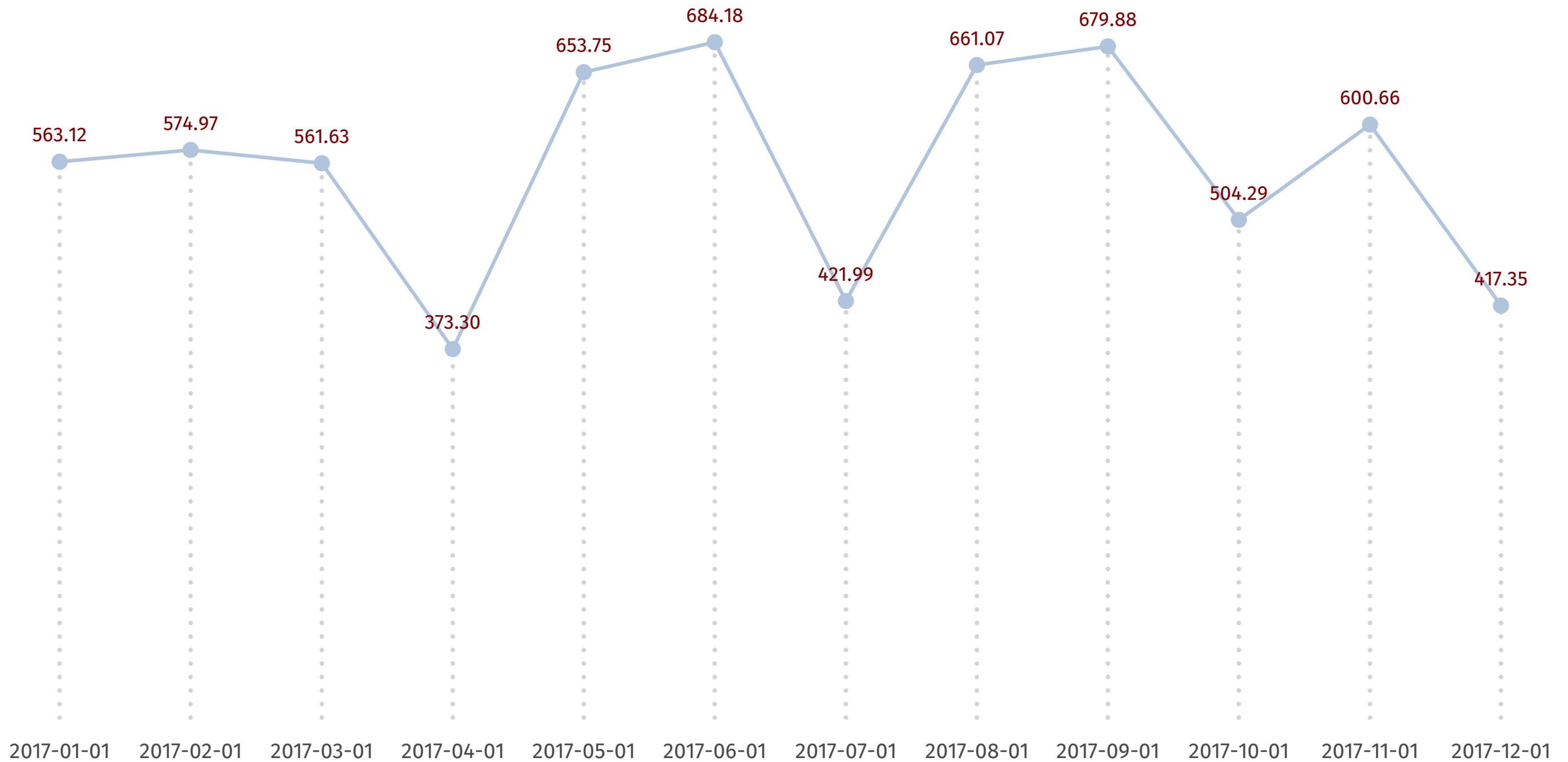
# AAPL Volume



volume

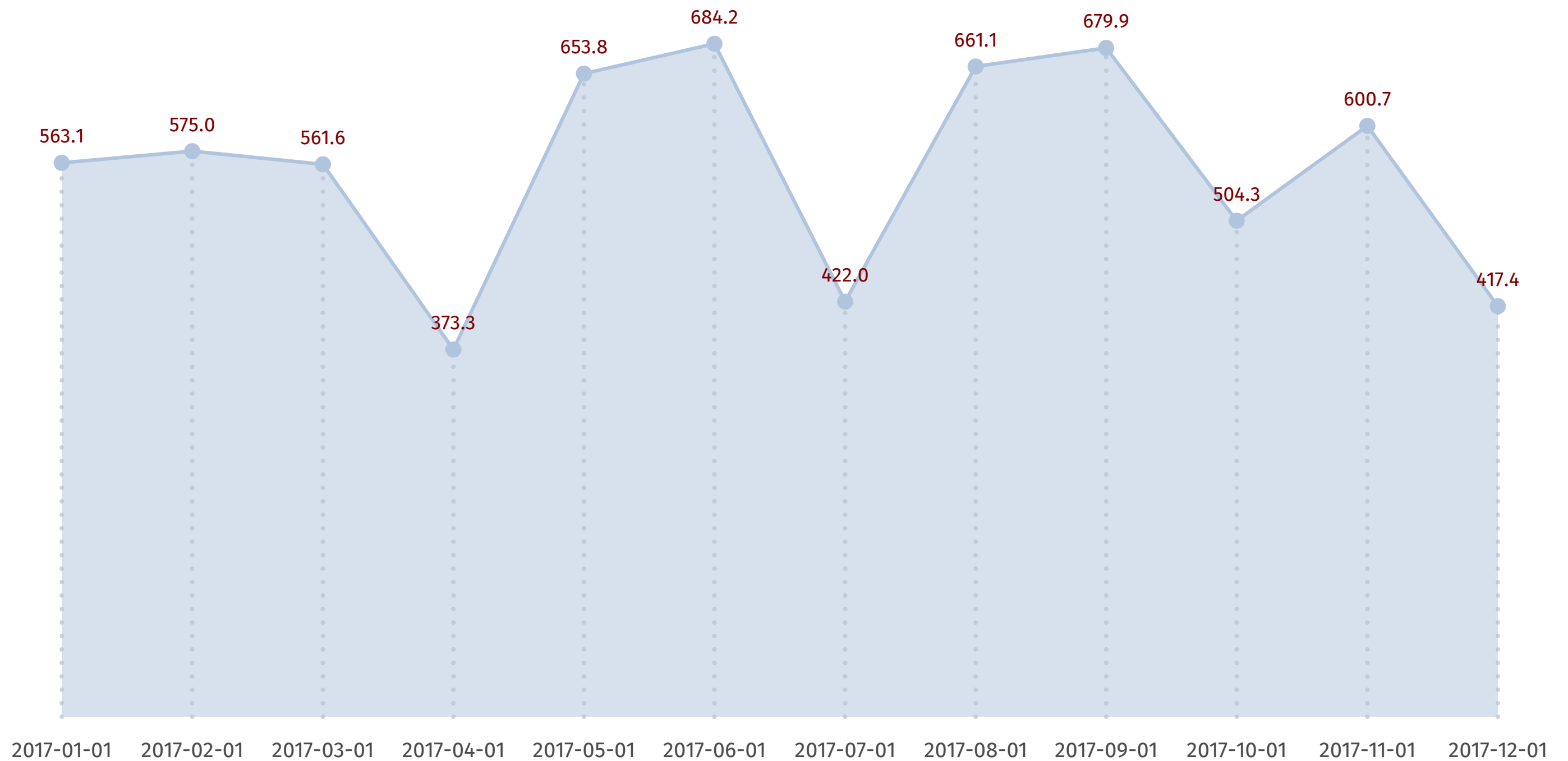


## AAPL Volume



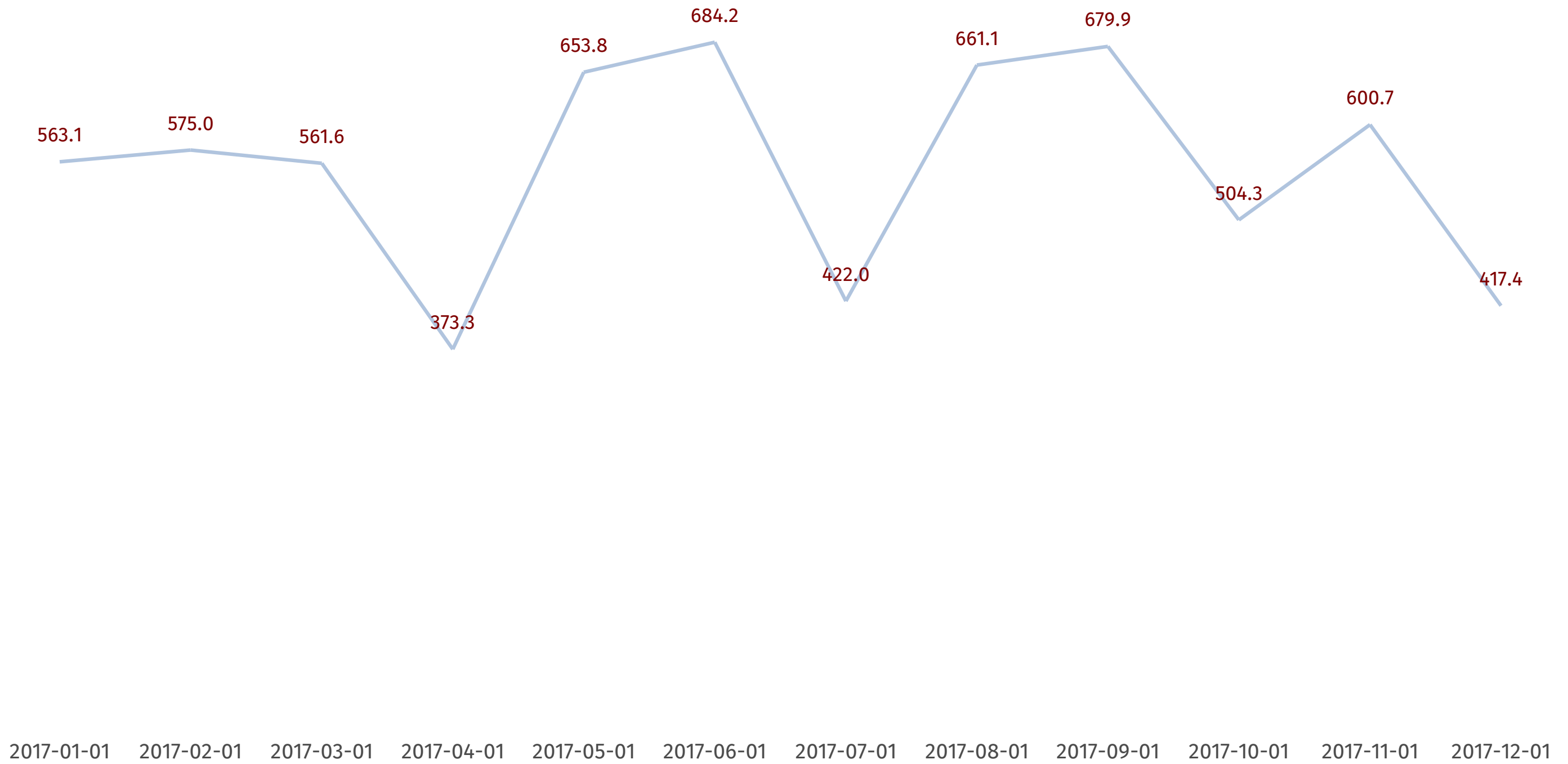
dot + line + value

## AAPL Volume



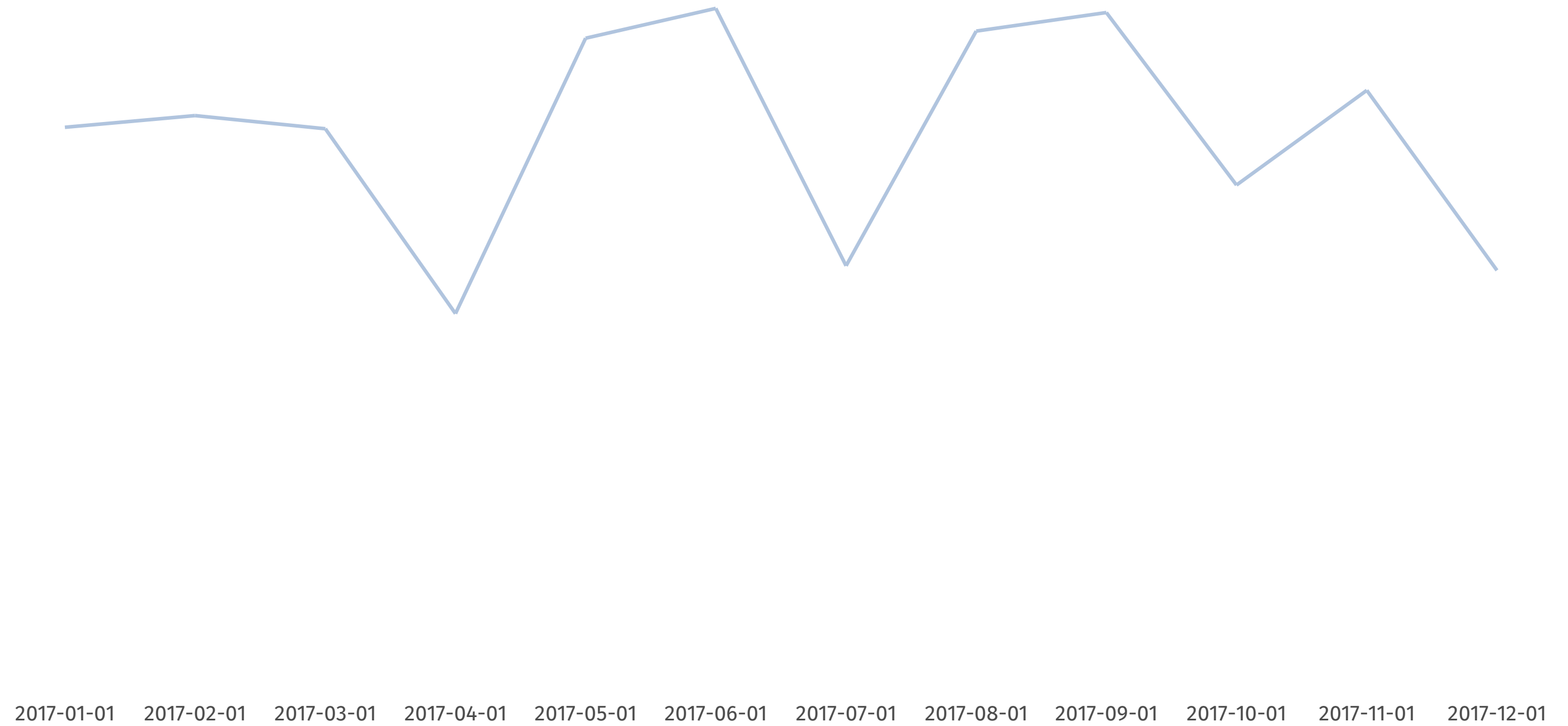
dot + line + value + volume

## AAPL Volume



line + value

## AAPL Volume



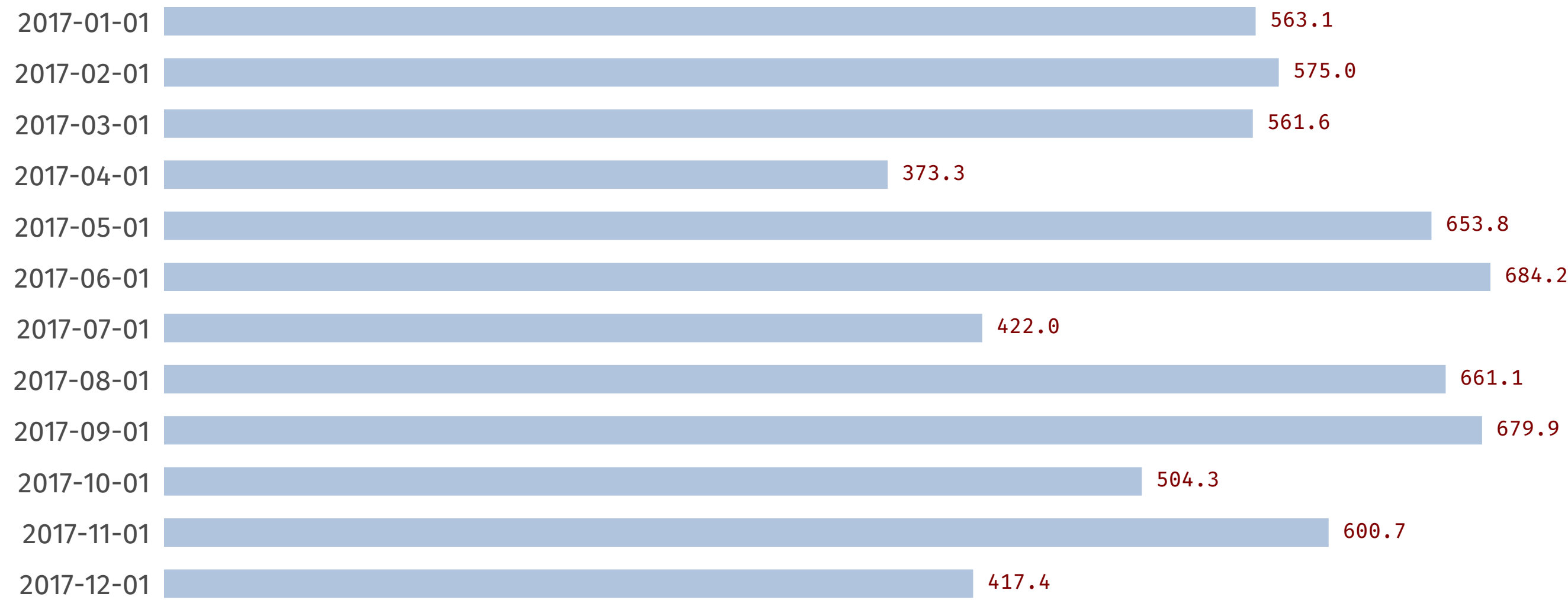
line only

## AAPL Volume



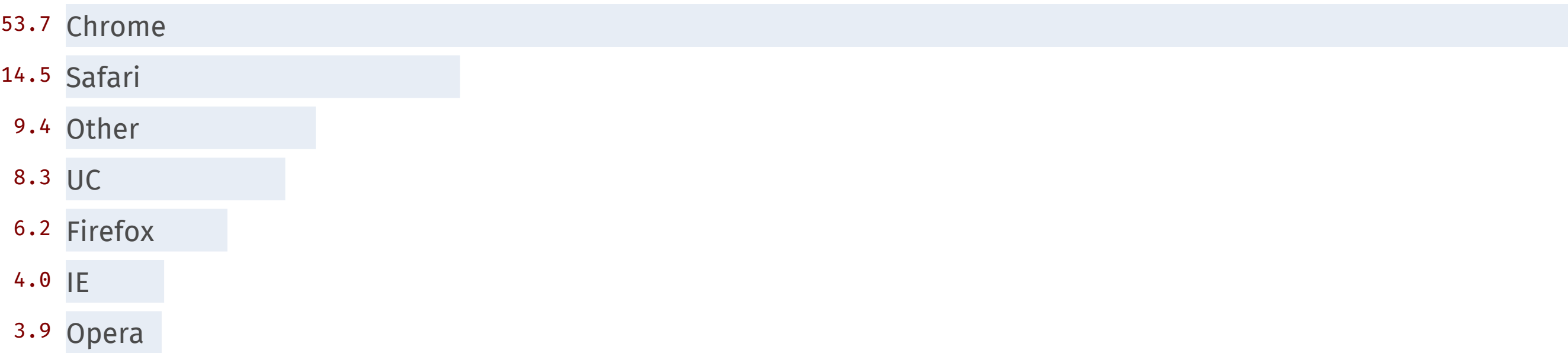
scatter

# AAPL Volume

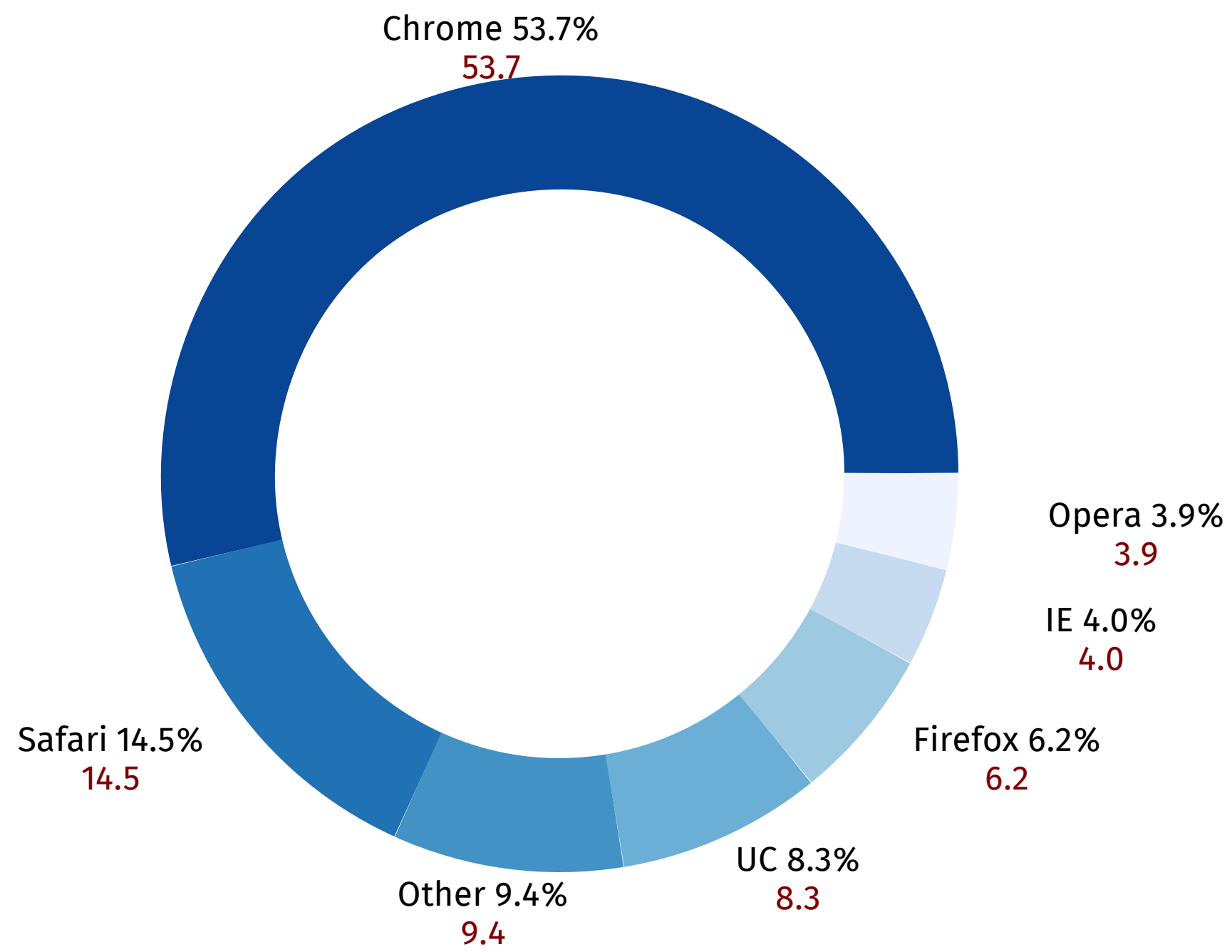


horizontal bar

# Browser Market Share Dec 2016-Dec 2017



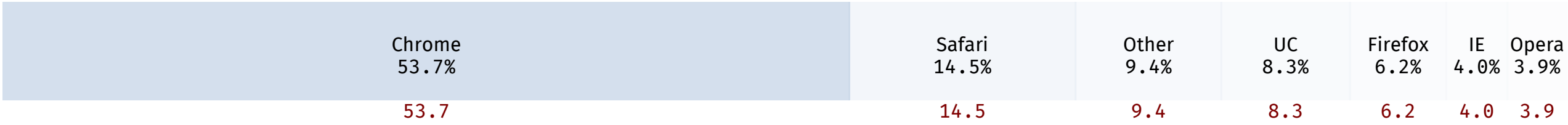
word bar



donut

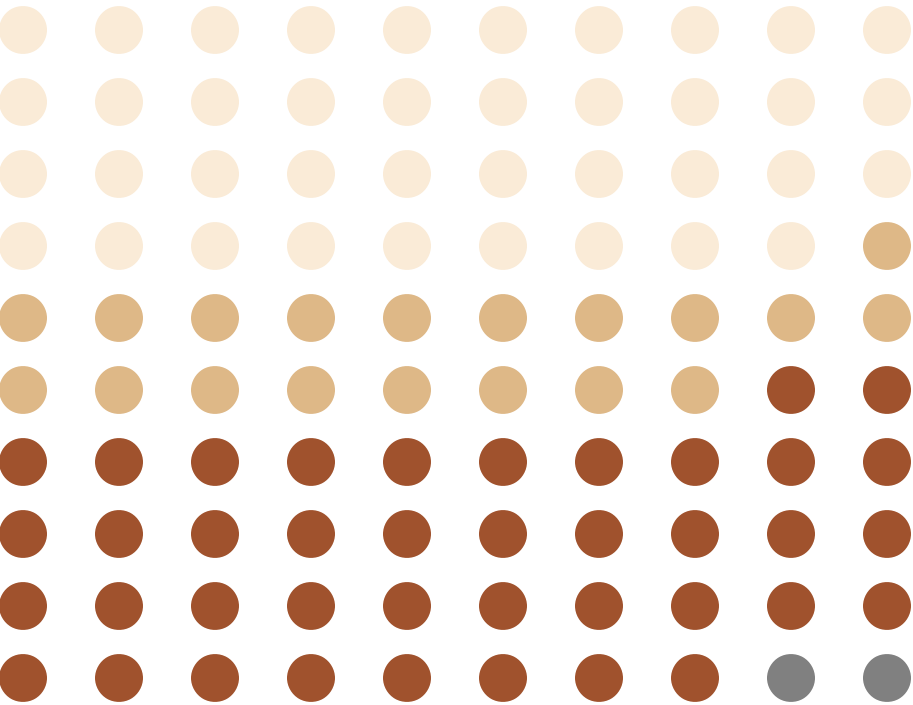


Browser Market Share Dec 2016-Dec 2017



pmap

US Incarceration Rate



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

pgrid