

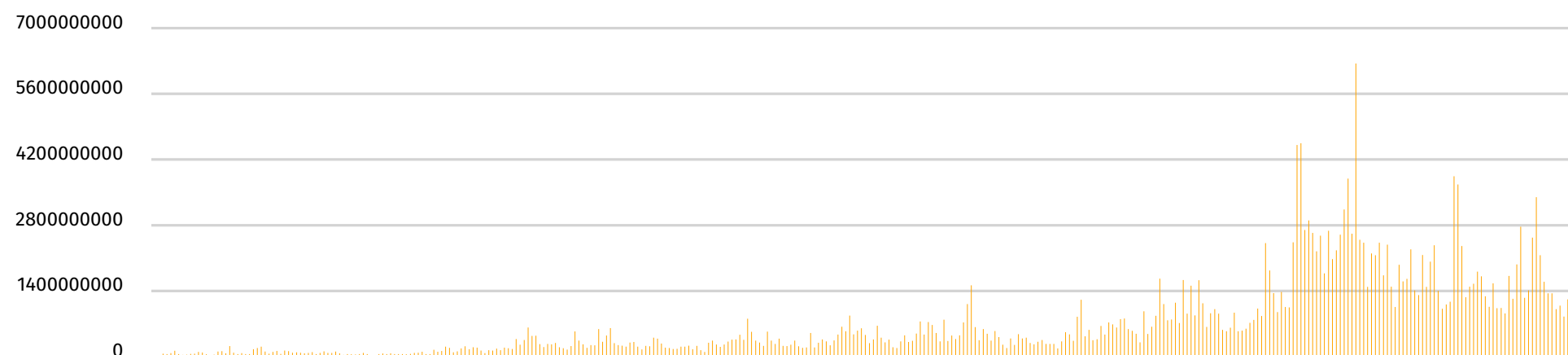
dchart

charts for deck

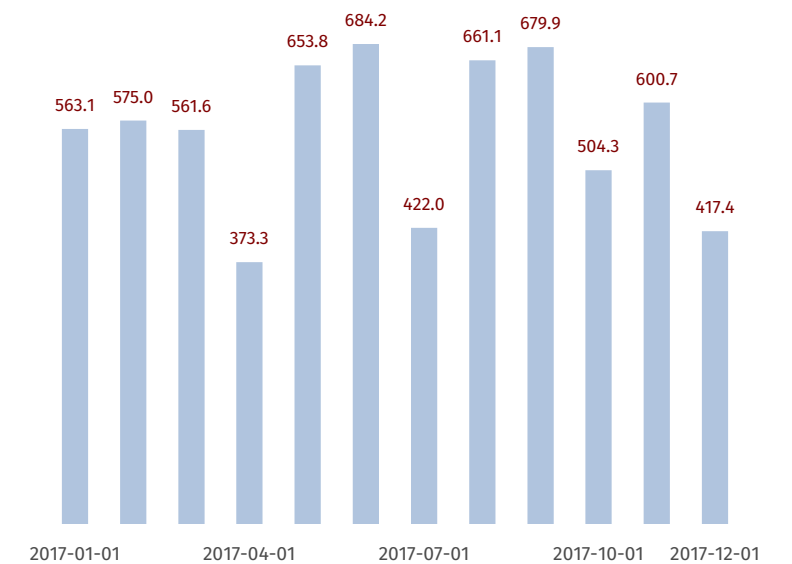
BITCOIN to USD



Volume



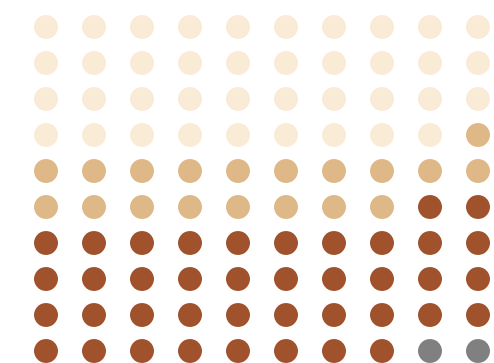
AAPL Volume



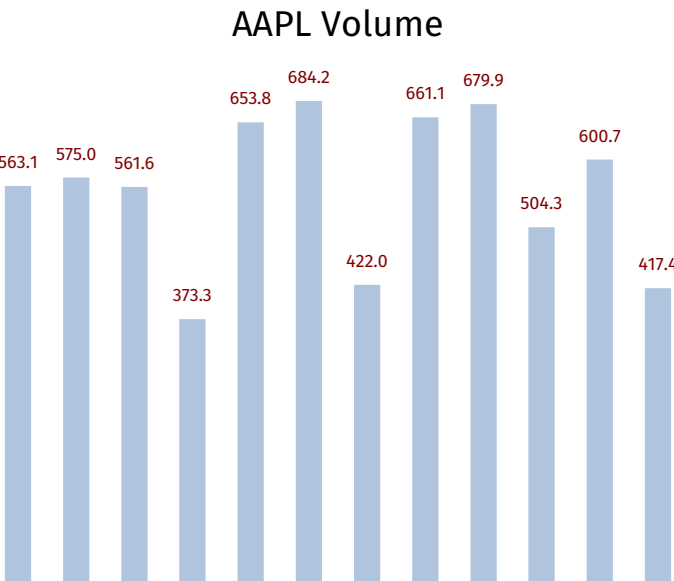
Browser Market Share Dec 2016-Dec 2017



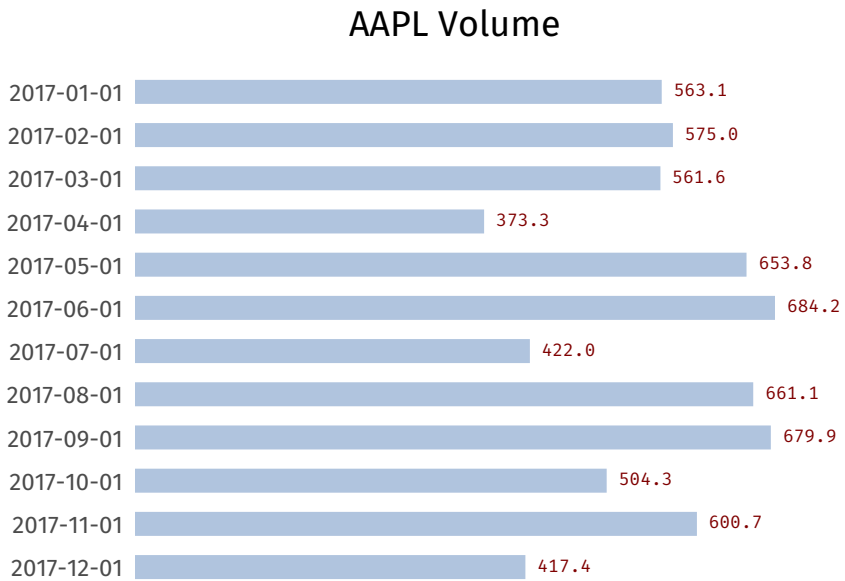
US Incarceration Rate



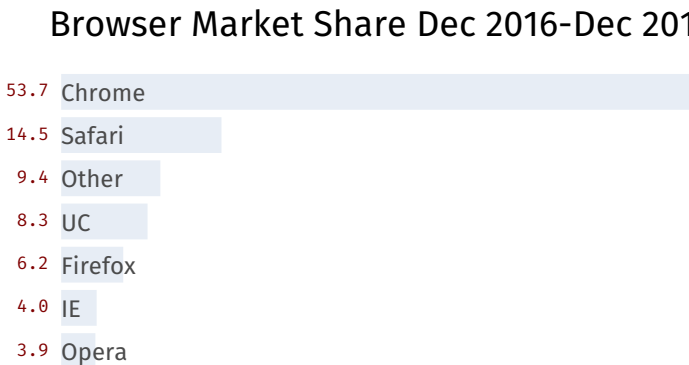
Anthony Starks



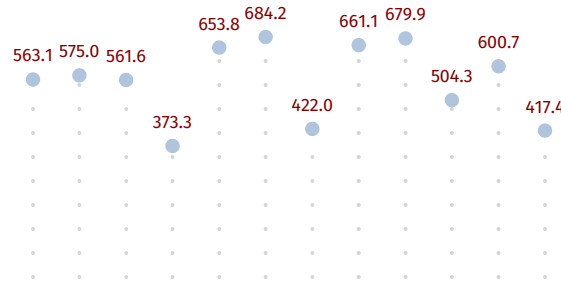
bar



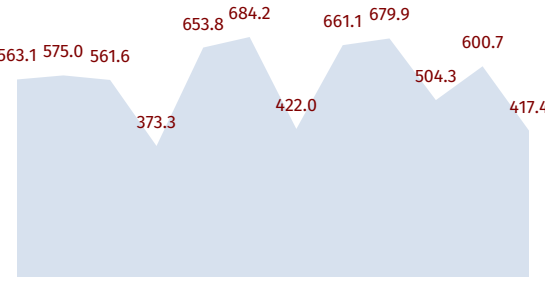
hbar



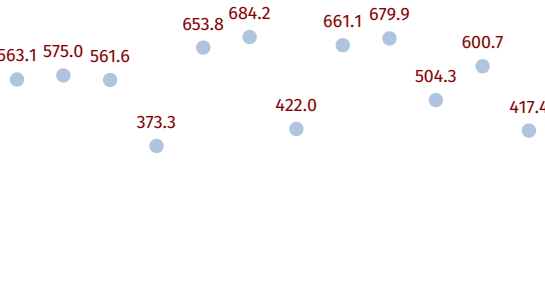
wbar



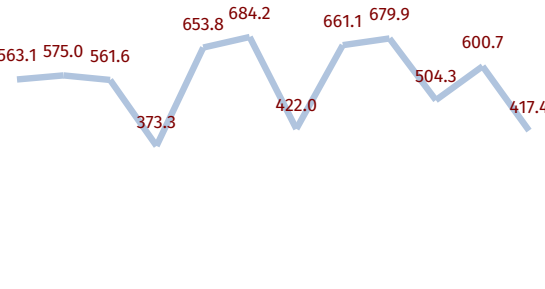
dot



vol

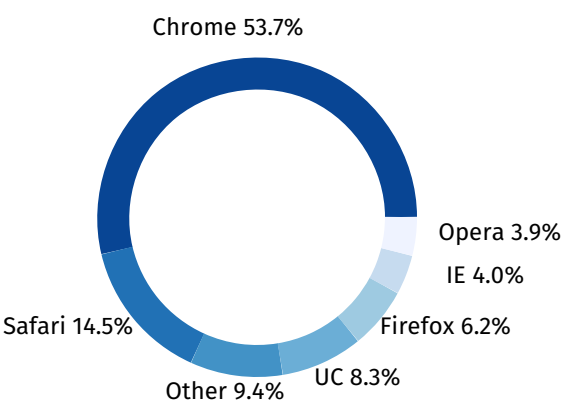


scatter



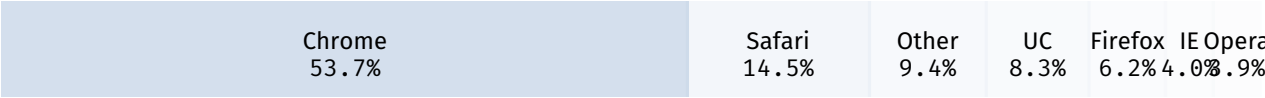
line

Browser Market Share Dec 2016-Dec 2017



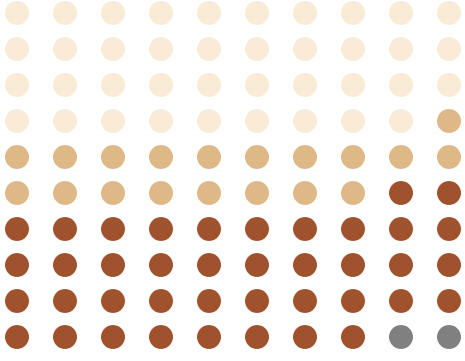
donut

Browser Market Share Dec 2016-Dec 2017



pmap

US Incarceration Rate



pgrid

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

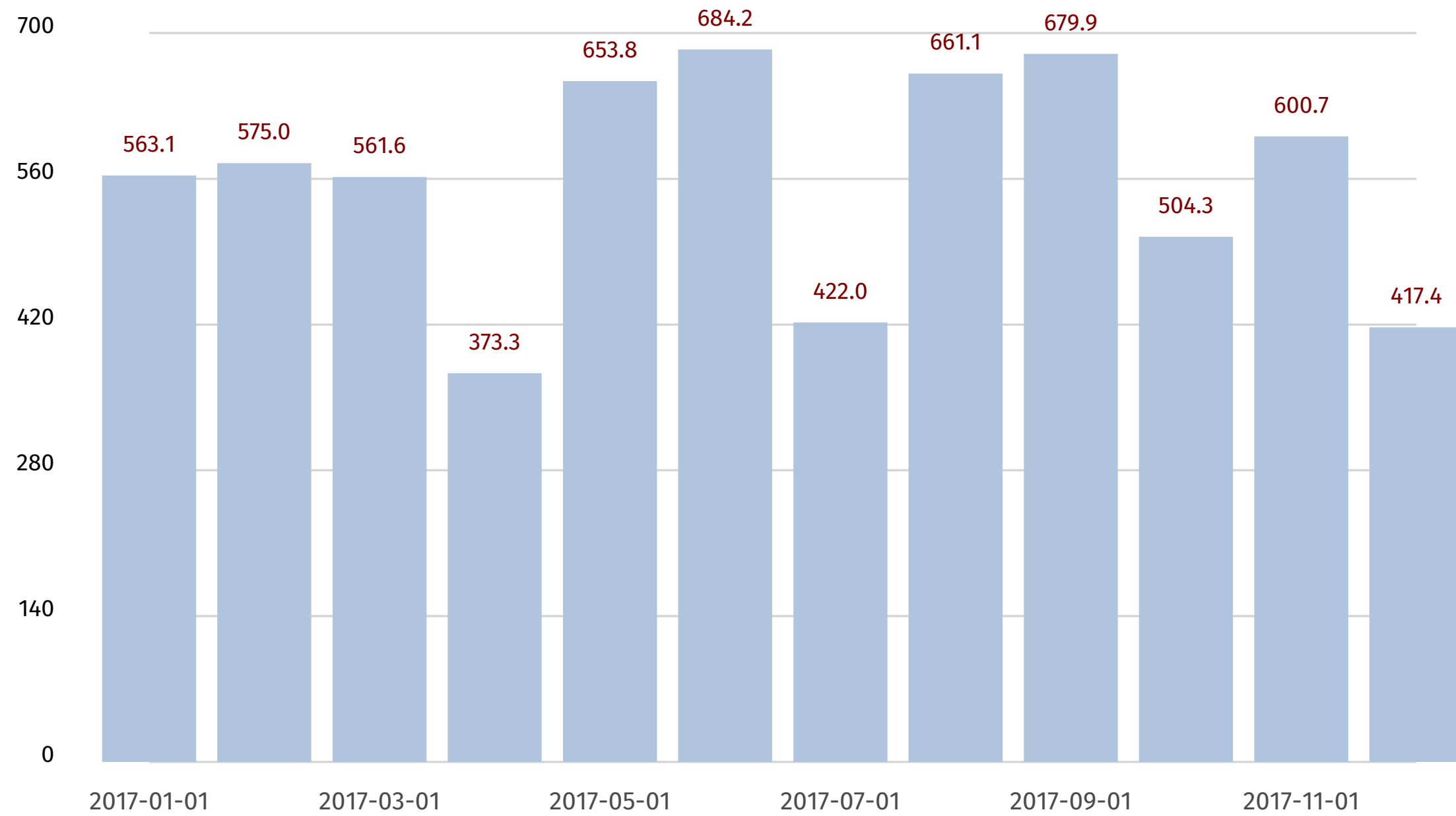
Chart Elements

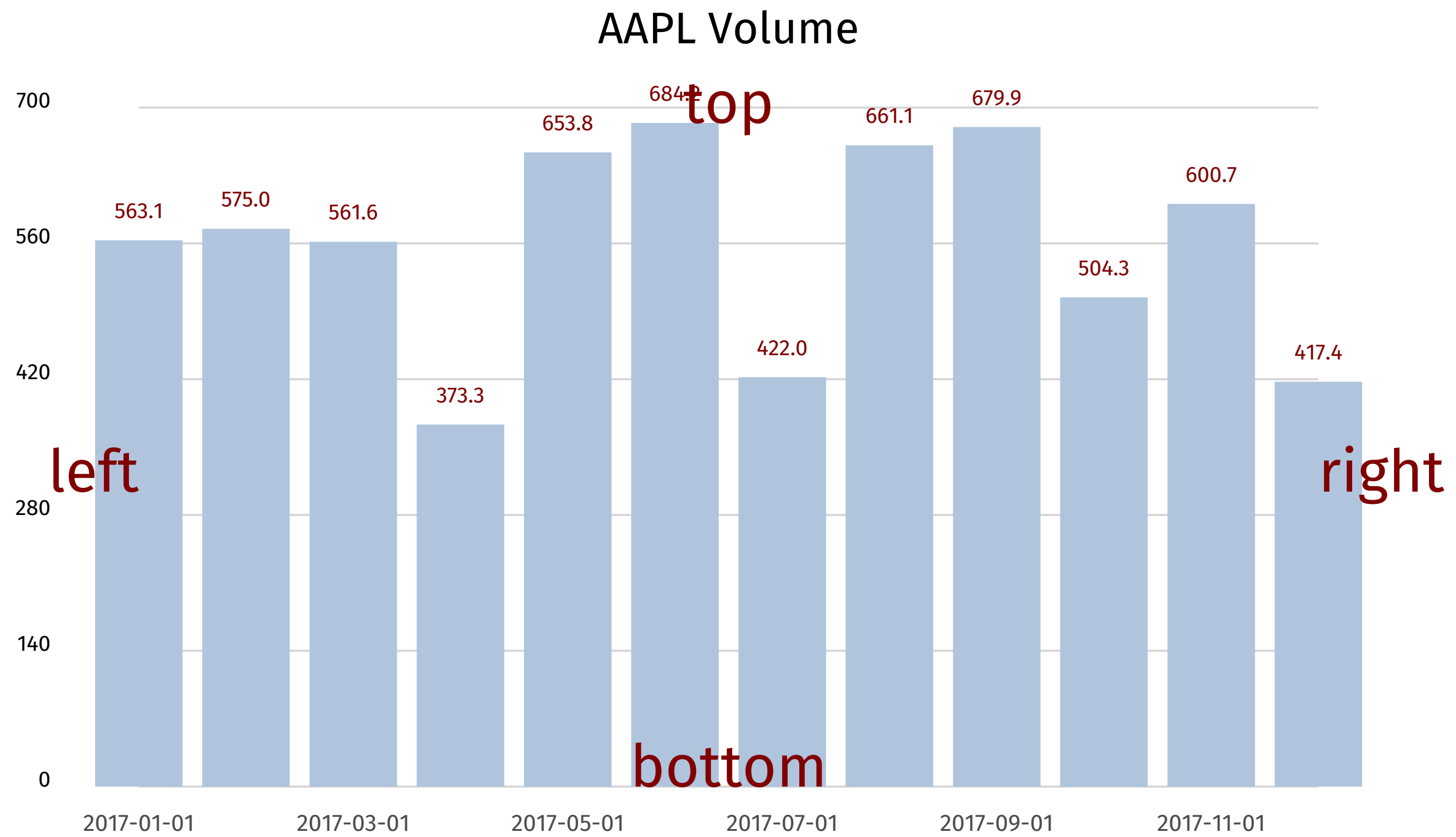
-grid	show gridlines on the y axis (default false)
-val	show values (default true)
-valpos	value position (t=top, b=bottom, m=middle) (default "t")
-yaxis	show a y axis (default true)
-yrange	specify the y axis labels (min,max,step)
-fulldeck	generate full deck markup (default true)
-title	show the title (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
-hline	horizontal line at value with label

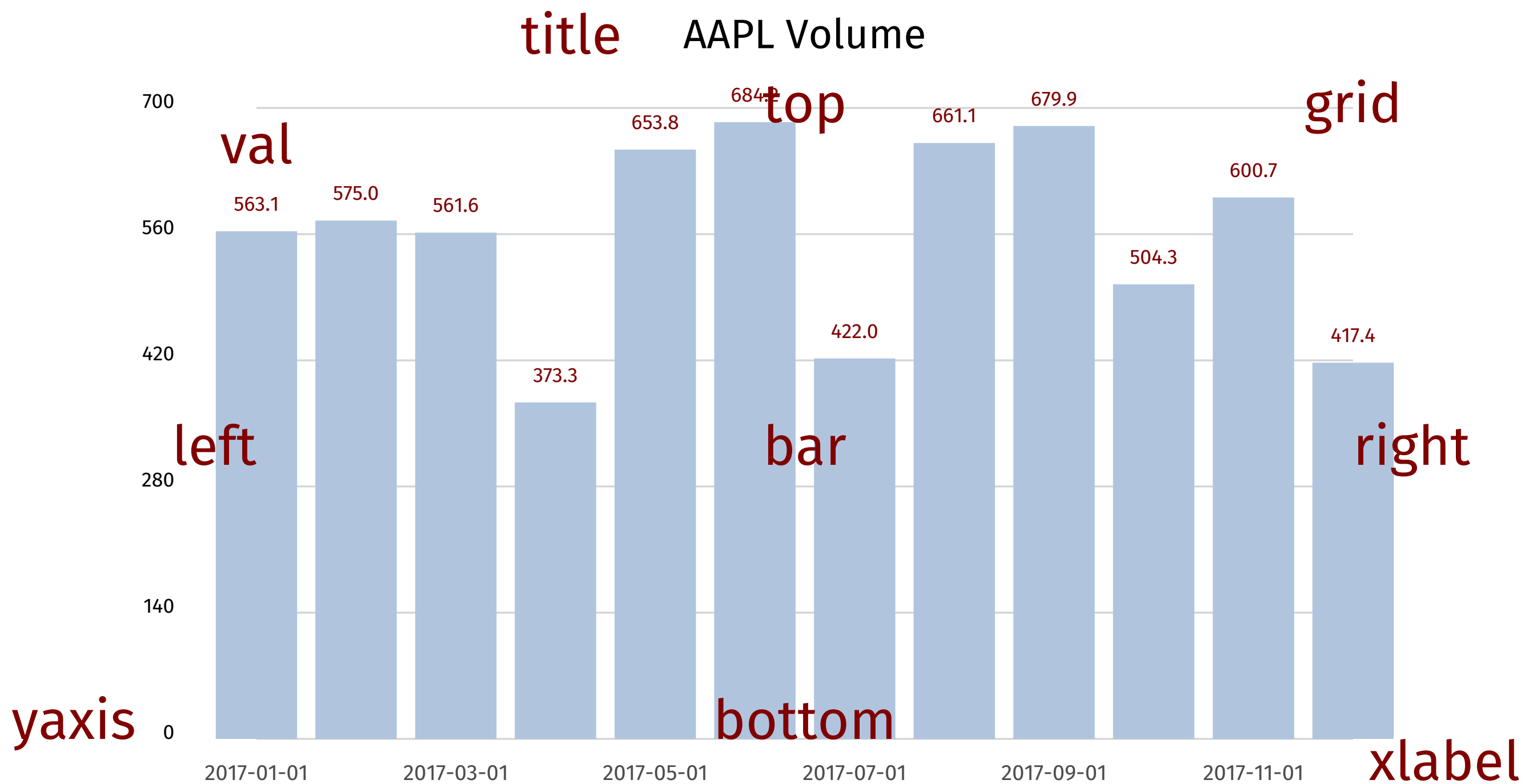
Measures and Attributes

-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)

AAPL Volume

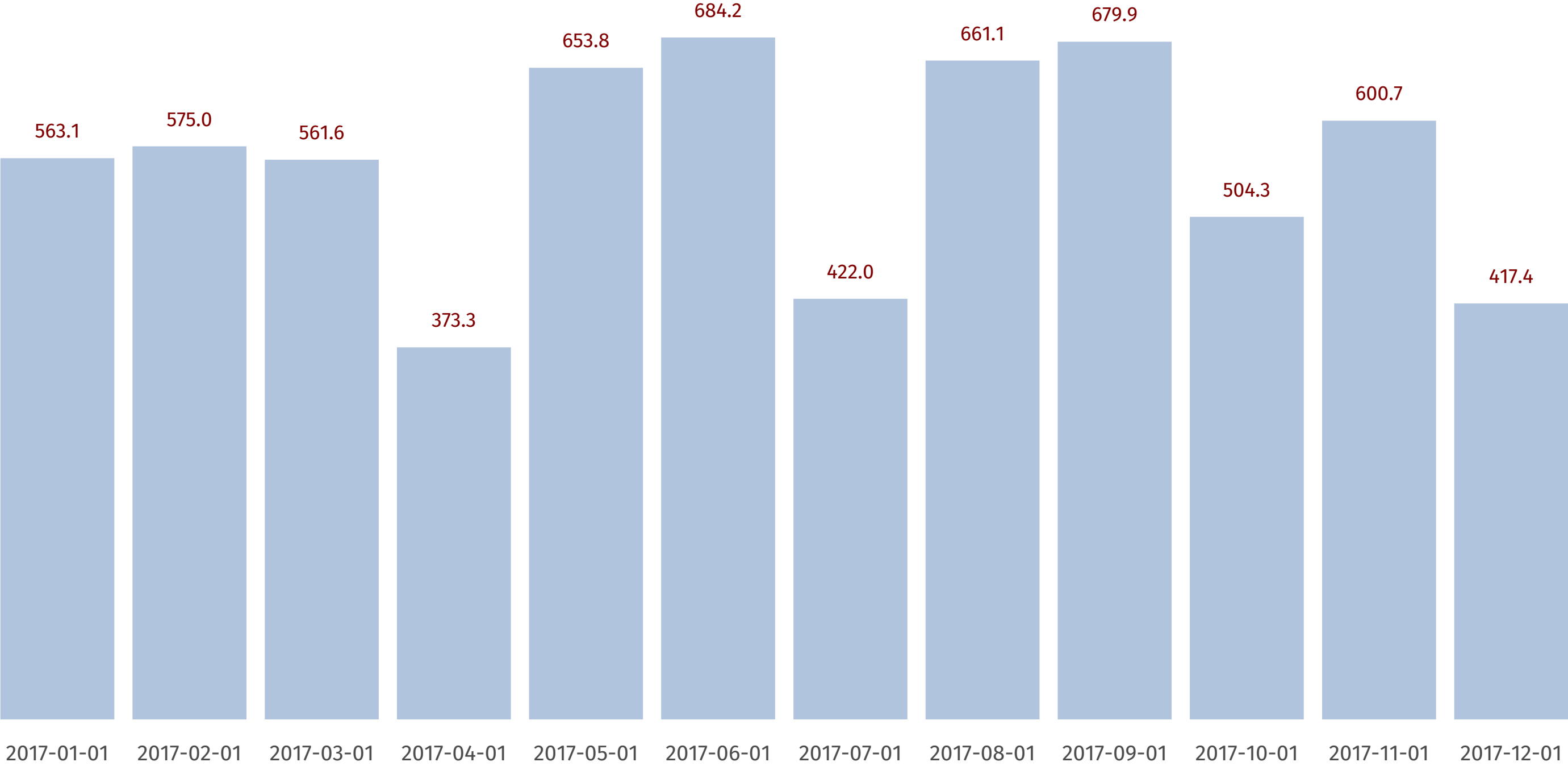






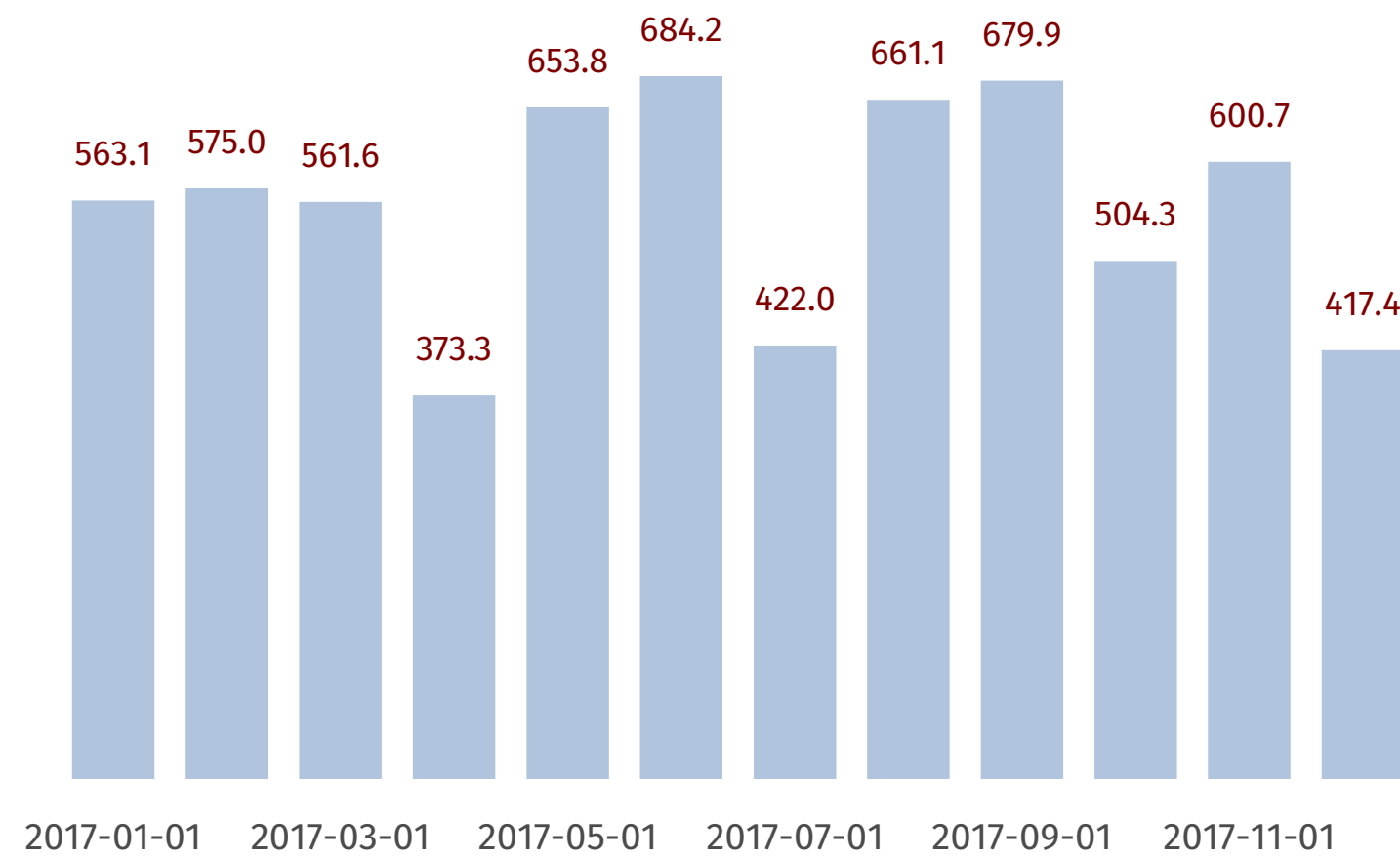
```
dchart -left=20 -right=80 -top=75 -yaxis -xlabel=2 -val -grid AAPL.d
```

AAPL Volume



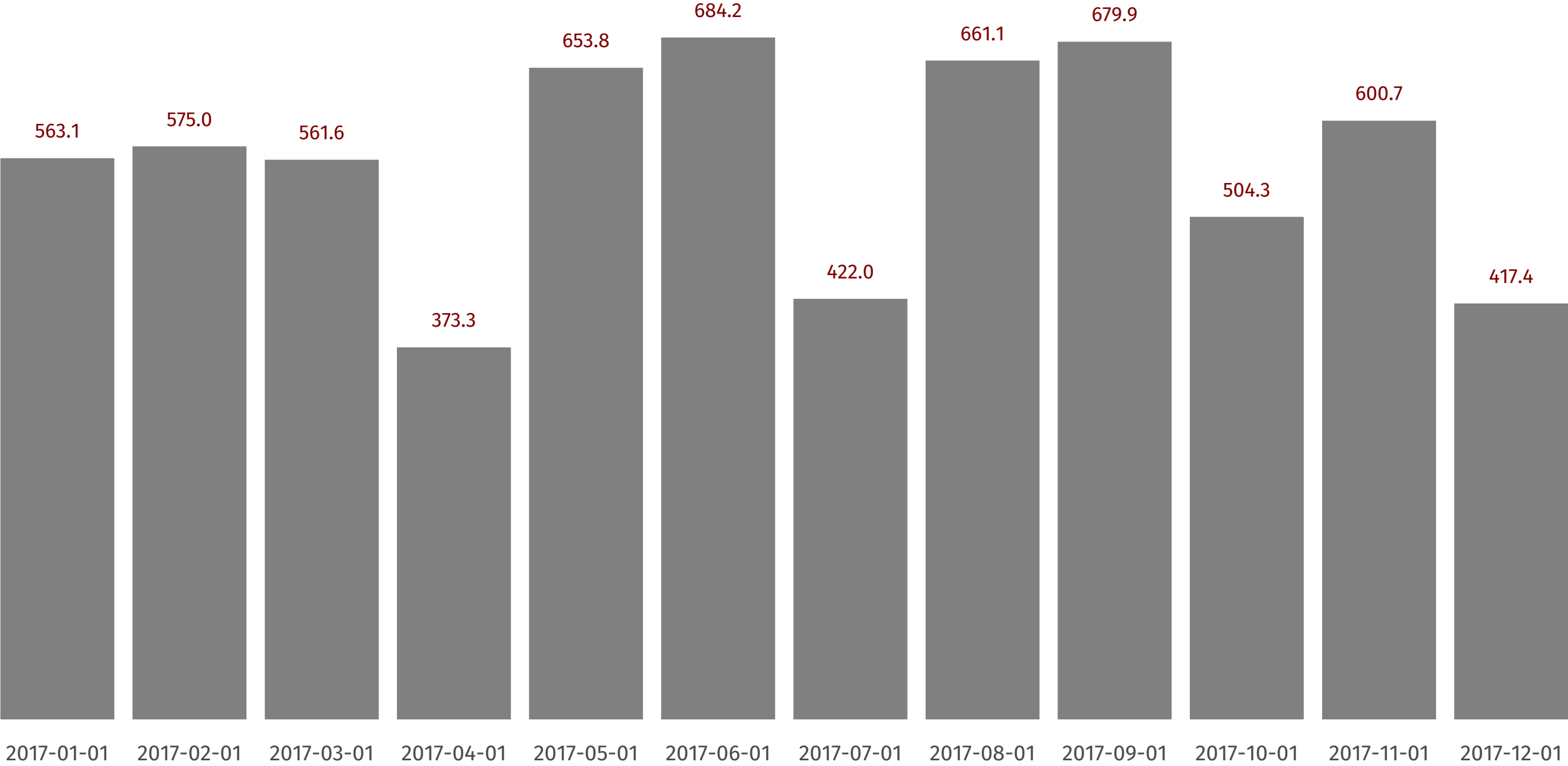
bar

AAPL Volume



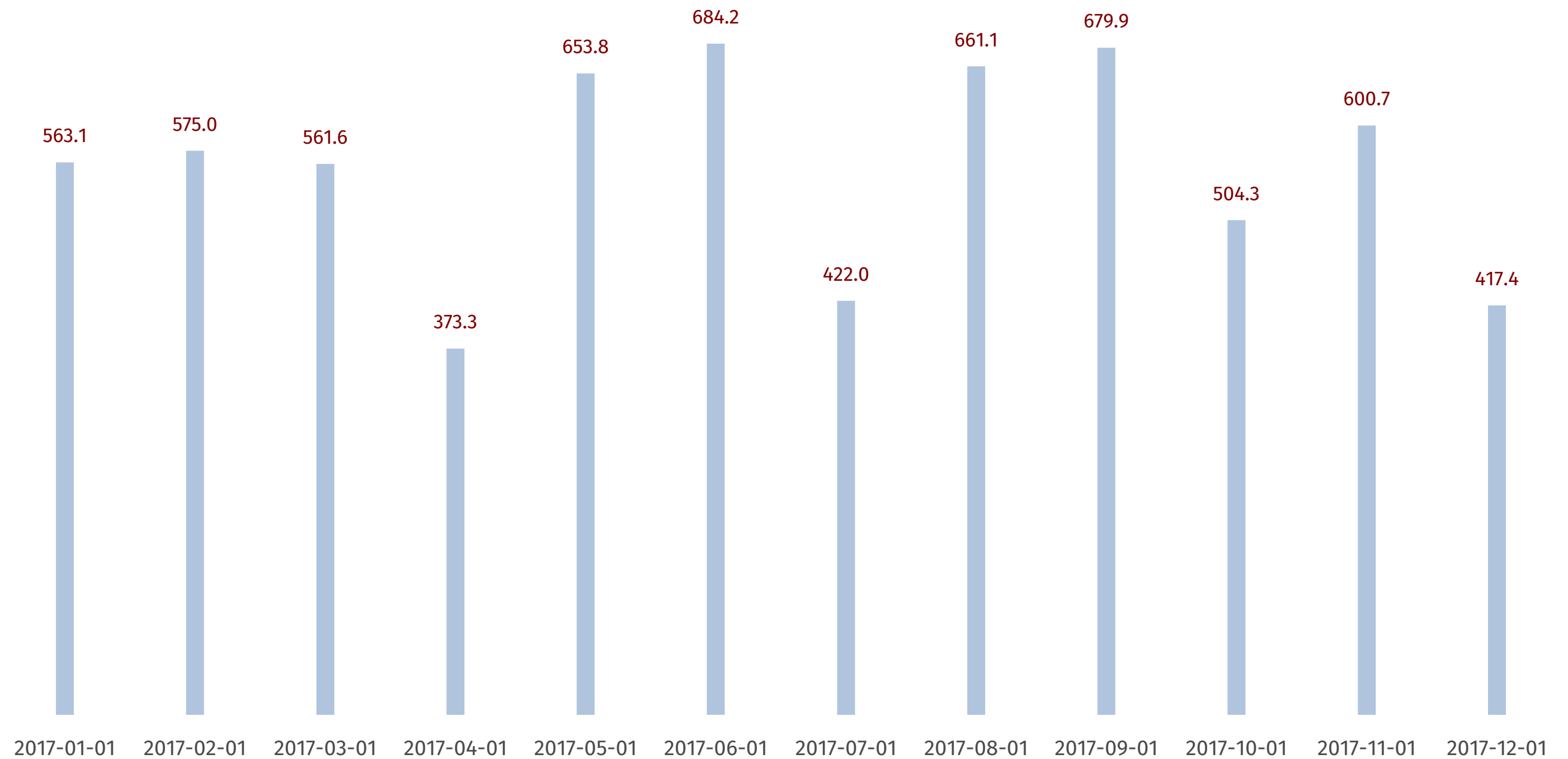
scaled bar

AAPL Volume



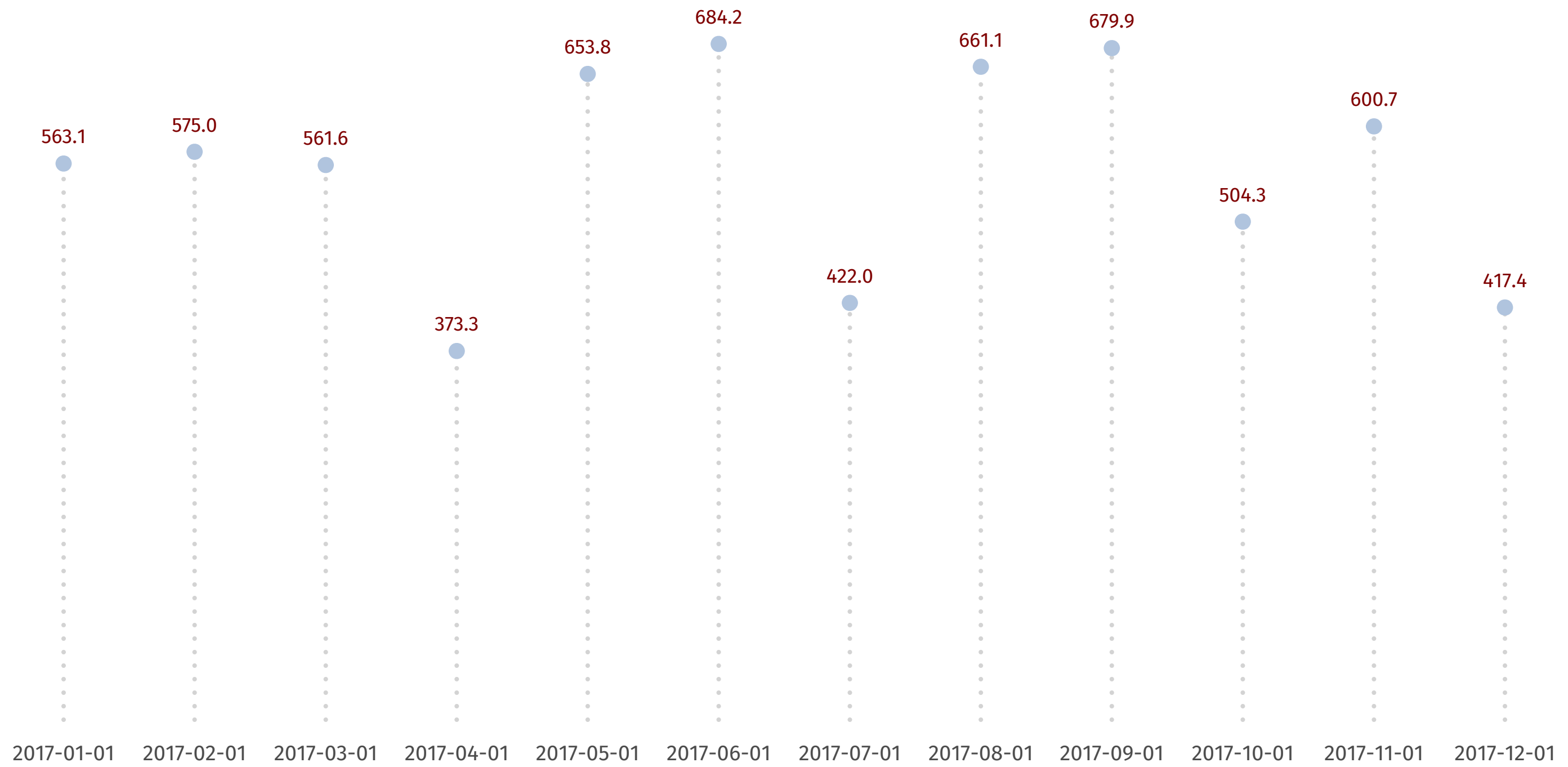
color change

AAPL Volume



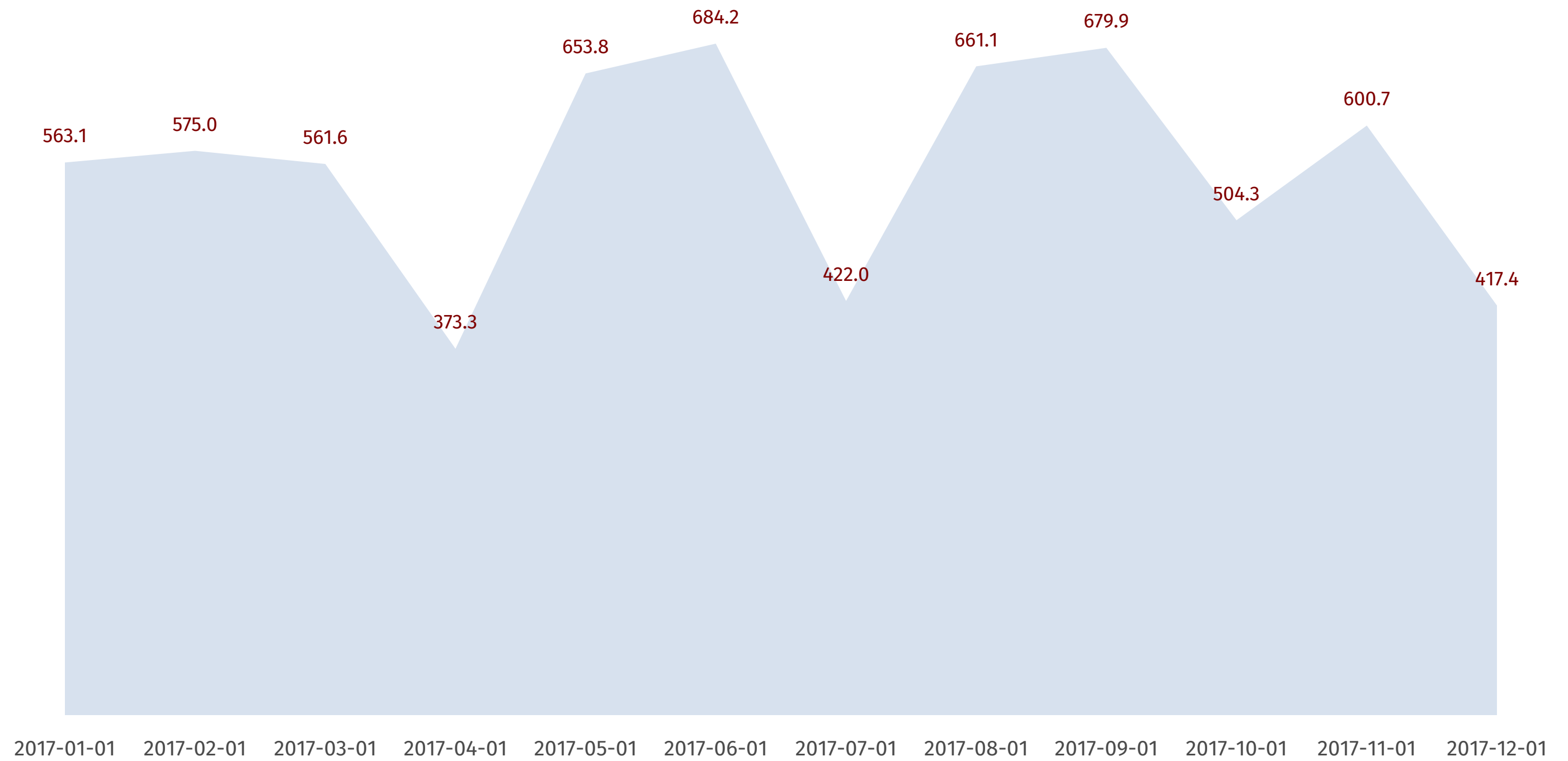
barwith change

AAPL Volume



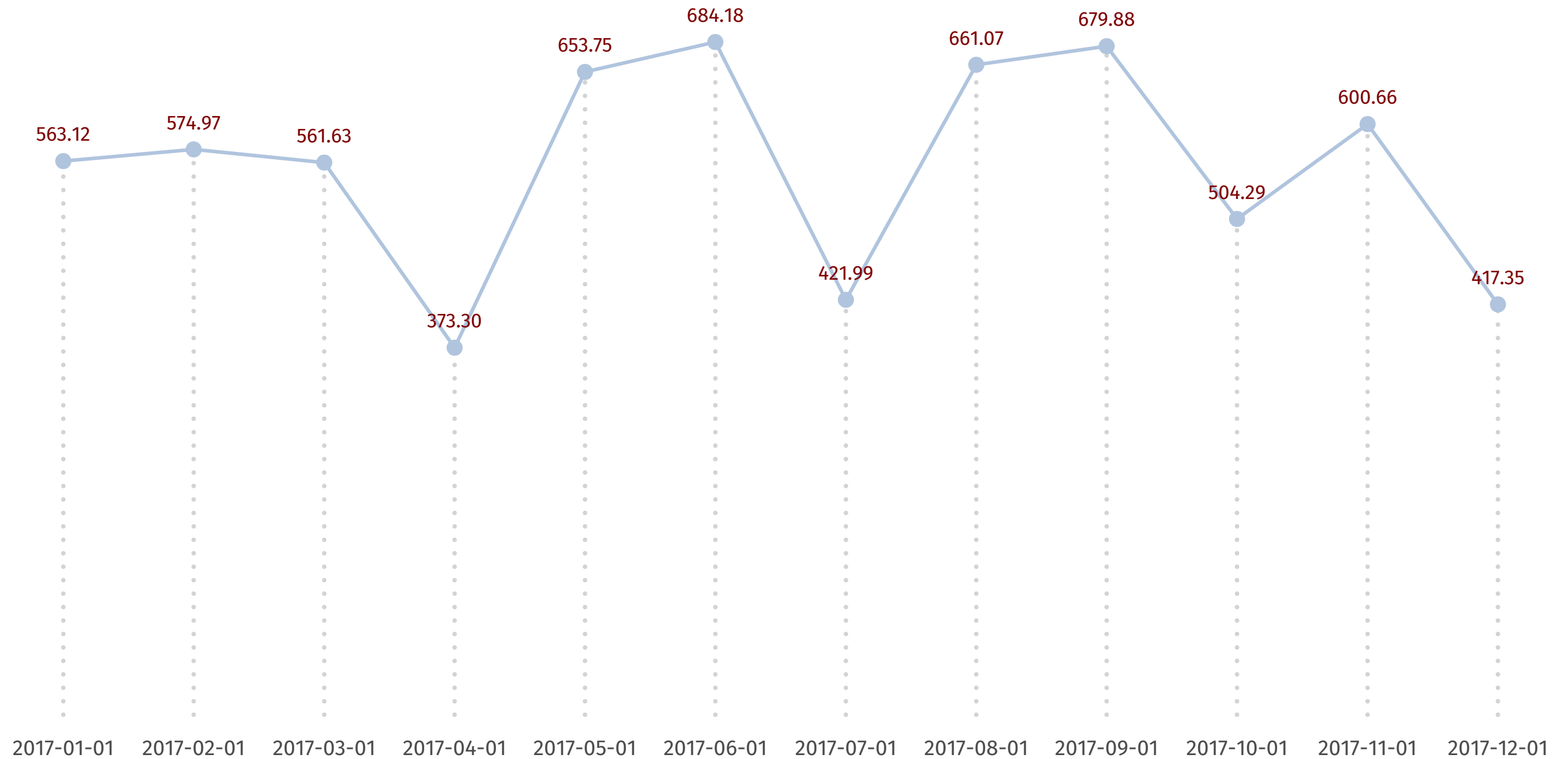
dot

AAPL Volume



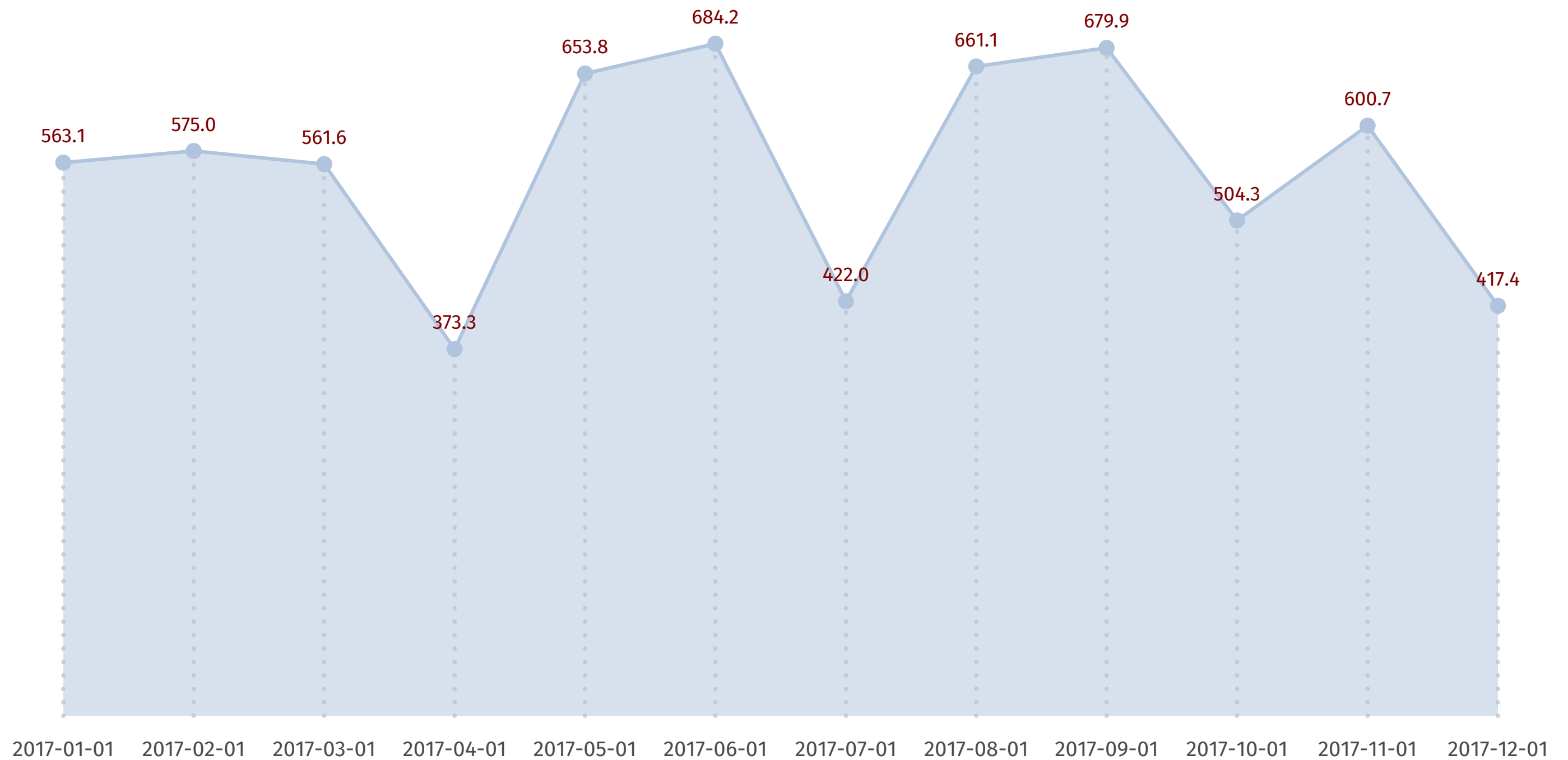
volume

AAPL Volume



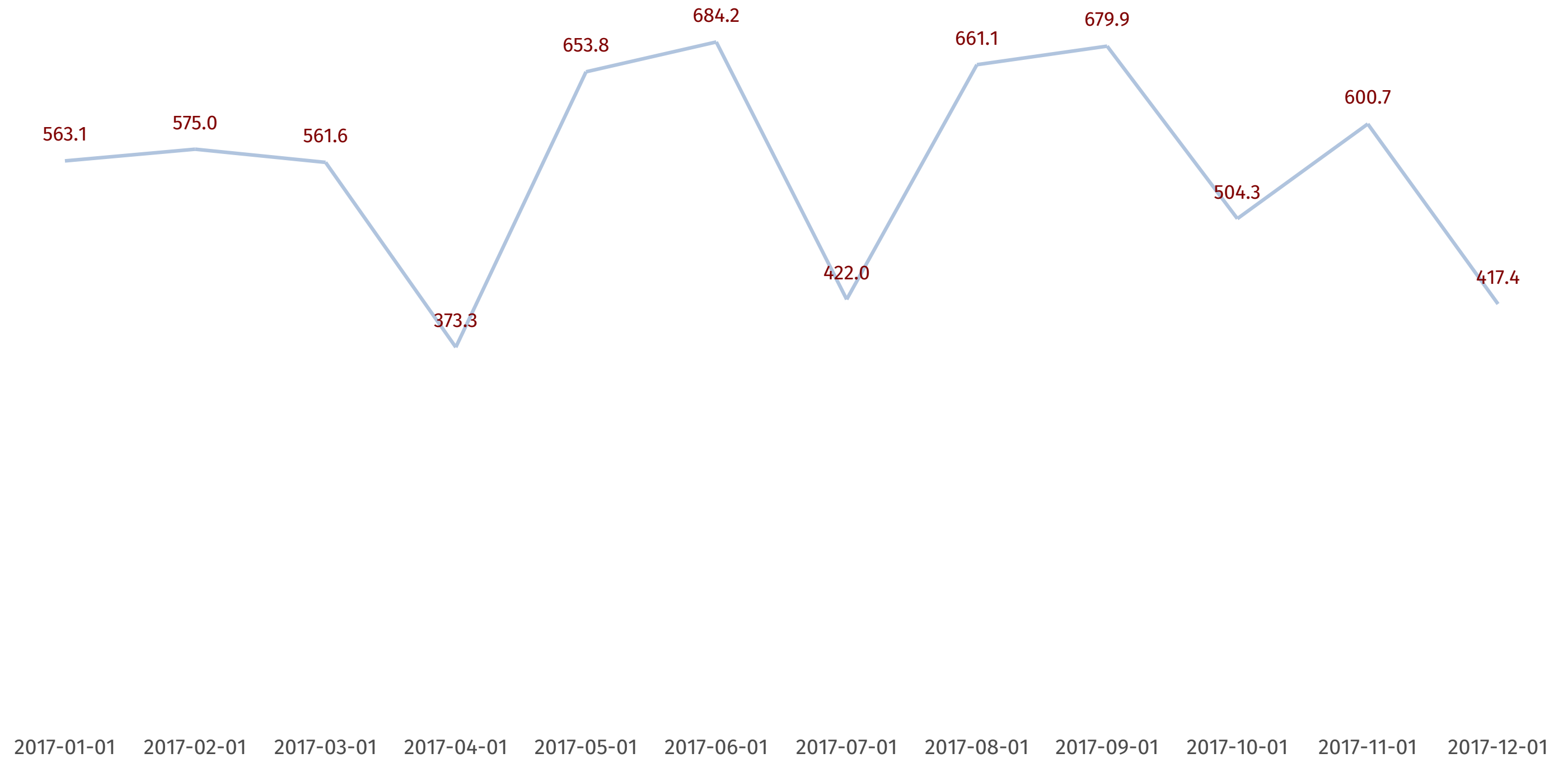
dot + line + value

AAPL Volume



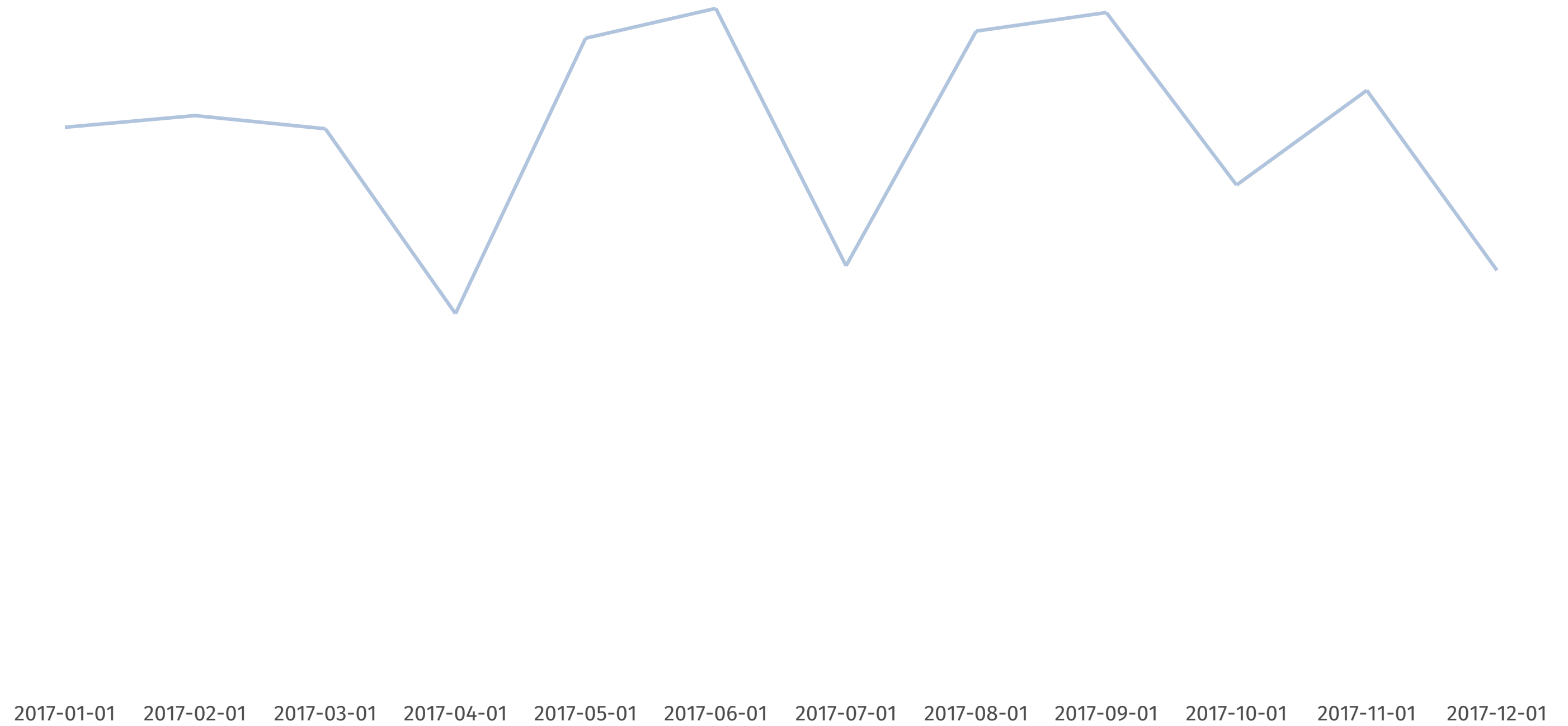
dot + line + value + volume

AAPL Volume



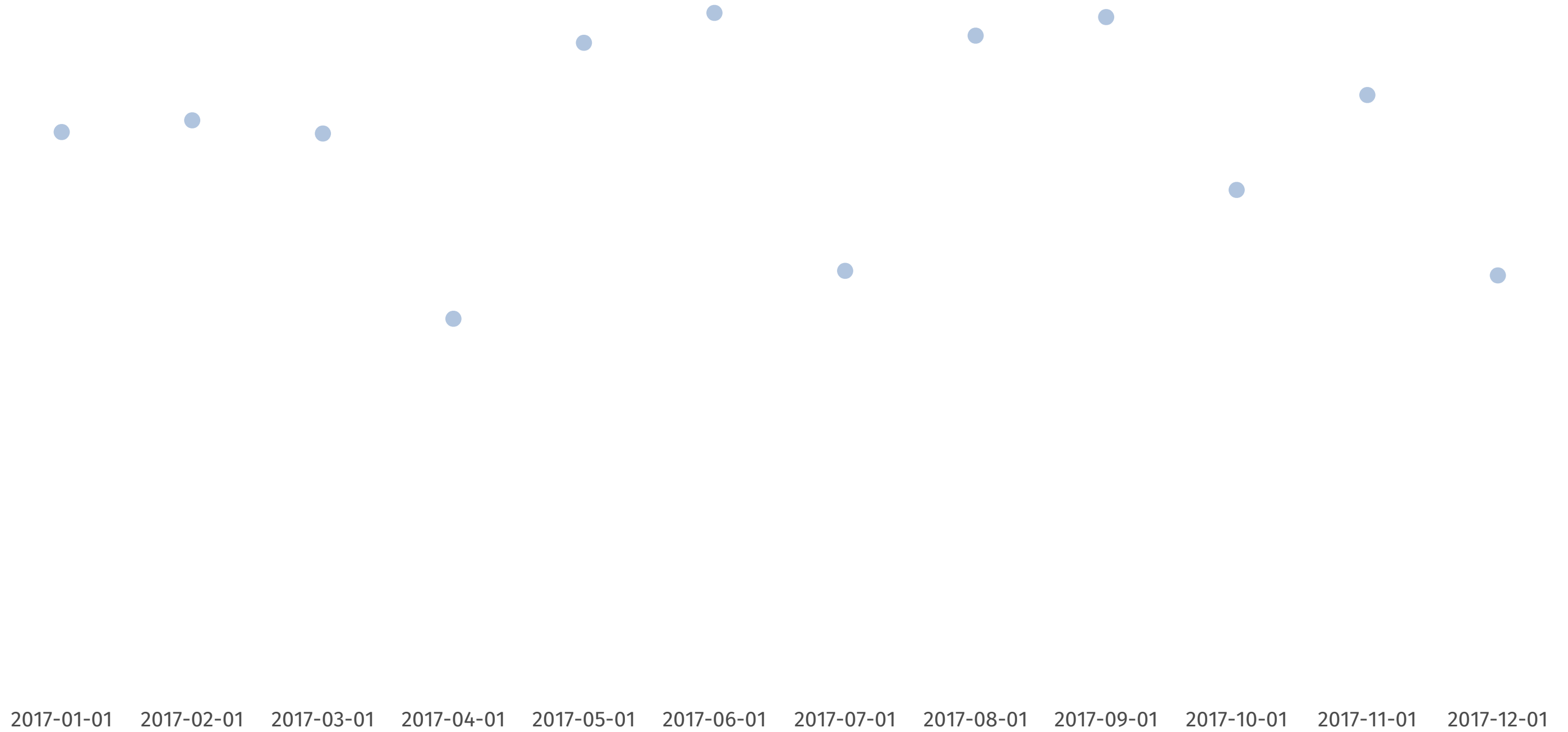
line + value

AAPL Volume



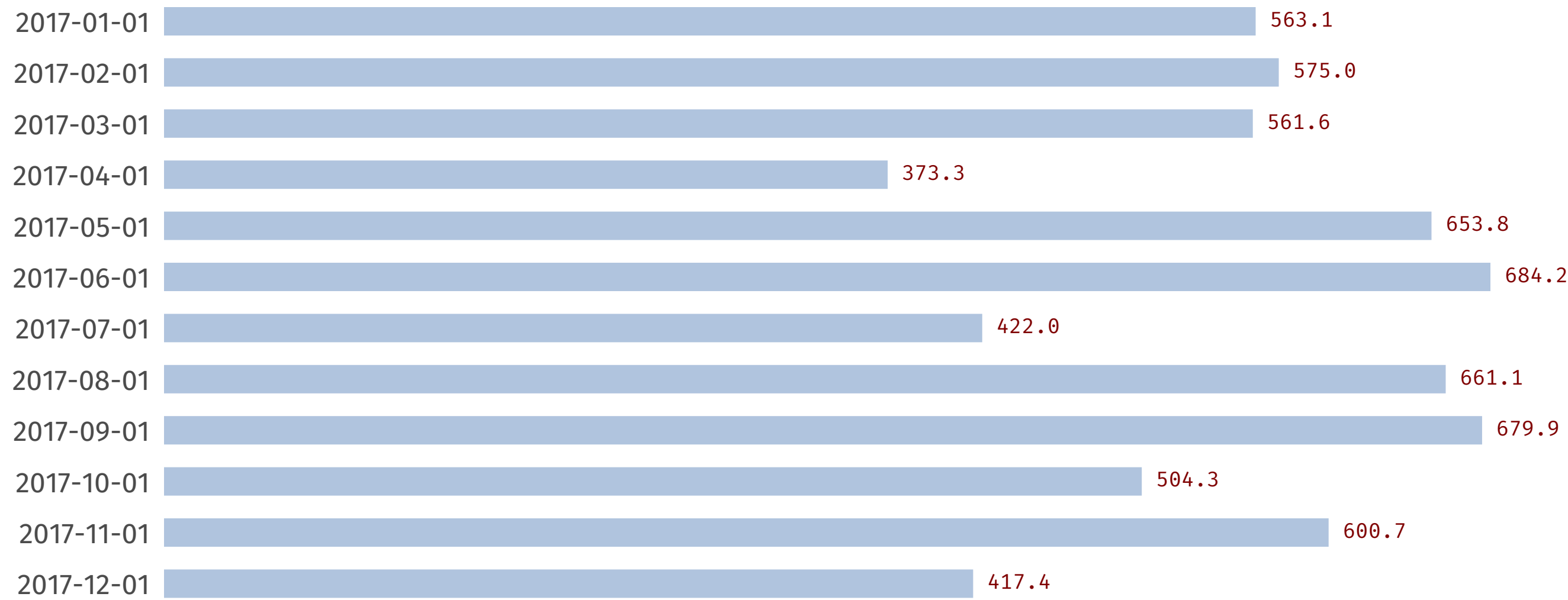
line only

AAPL Volume



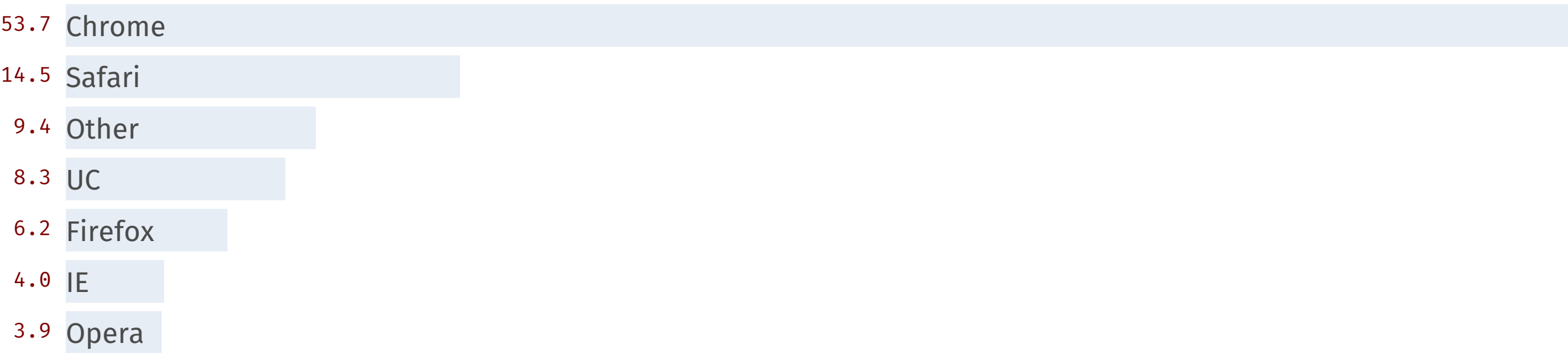
scatter

AAPL Volume

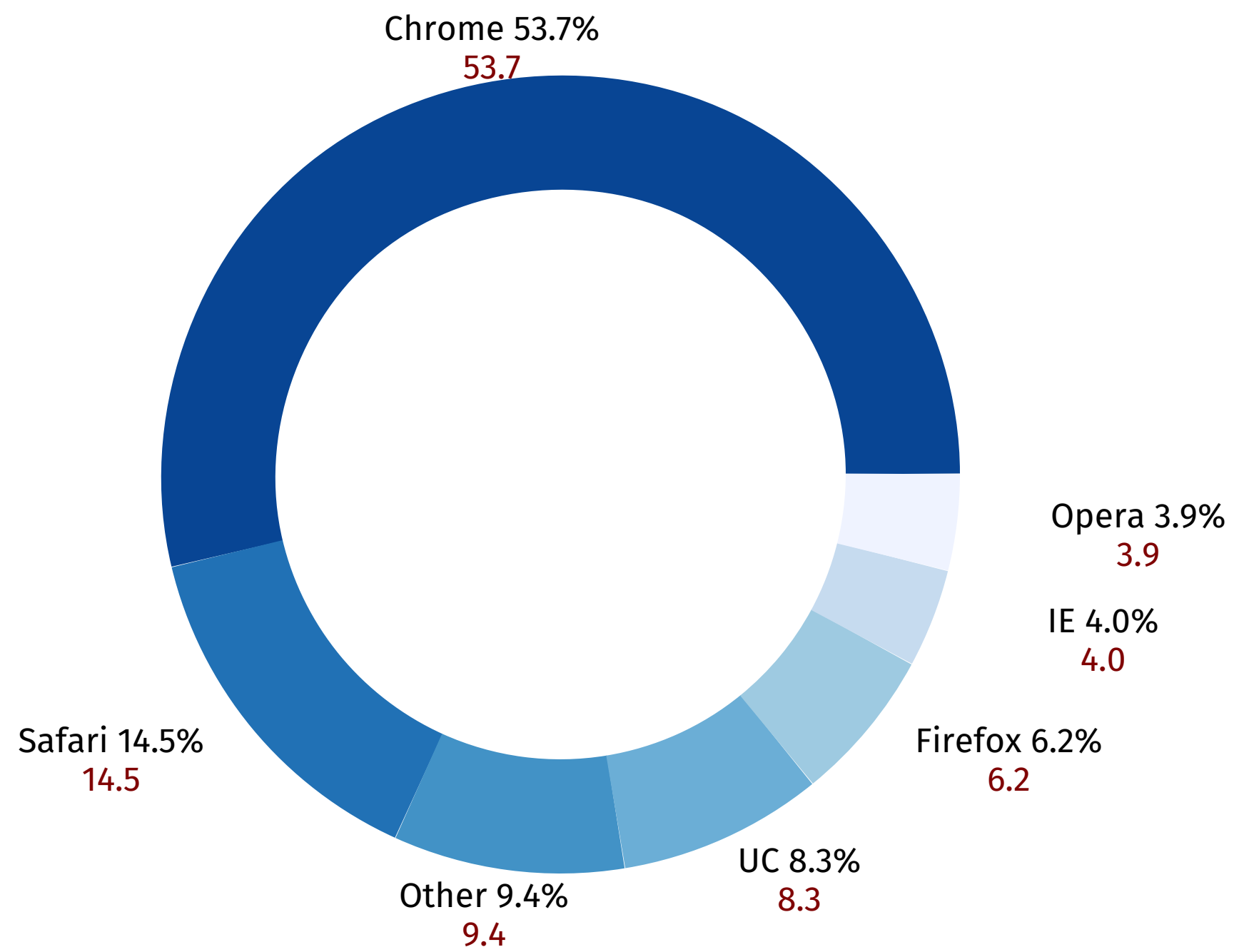


horizontal bar

Browser Market Share Dec 2016-Dec 2017

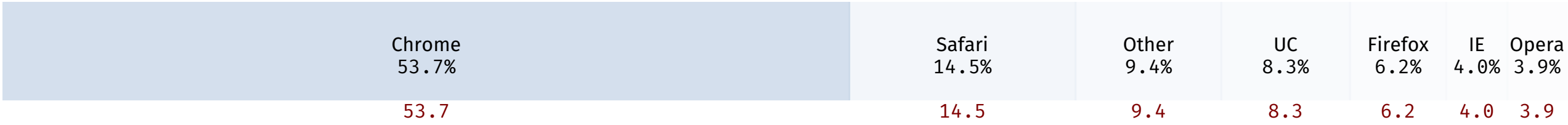


word bar



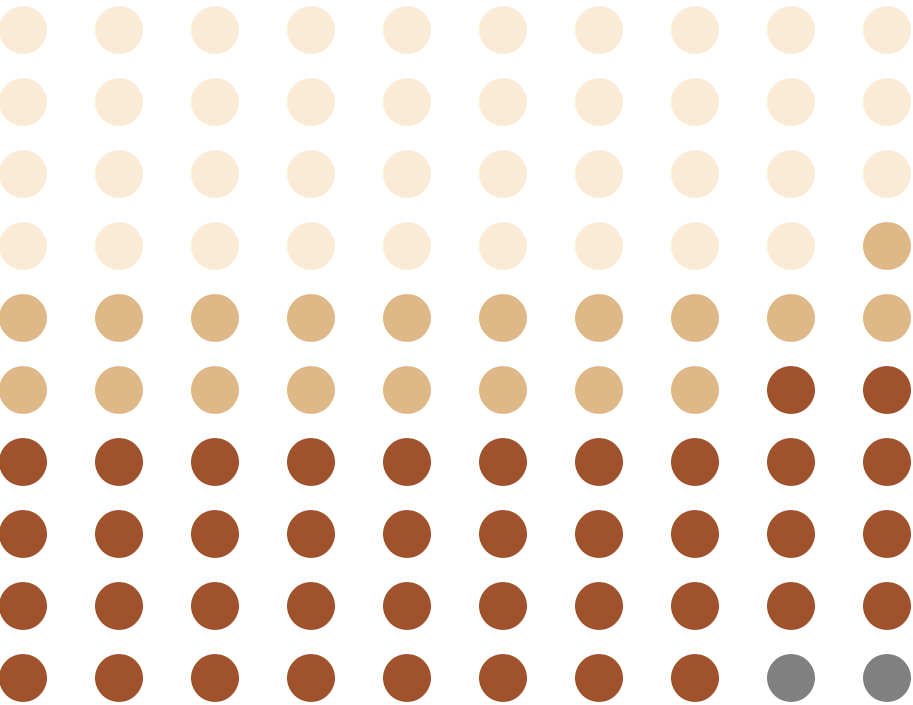
donut

Browser Market Share Dec 2016-Dec 2017



pmap

US Incarceration Rate

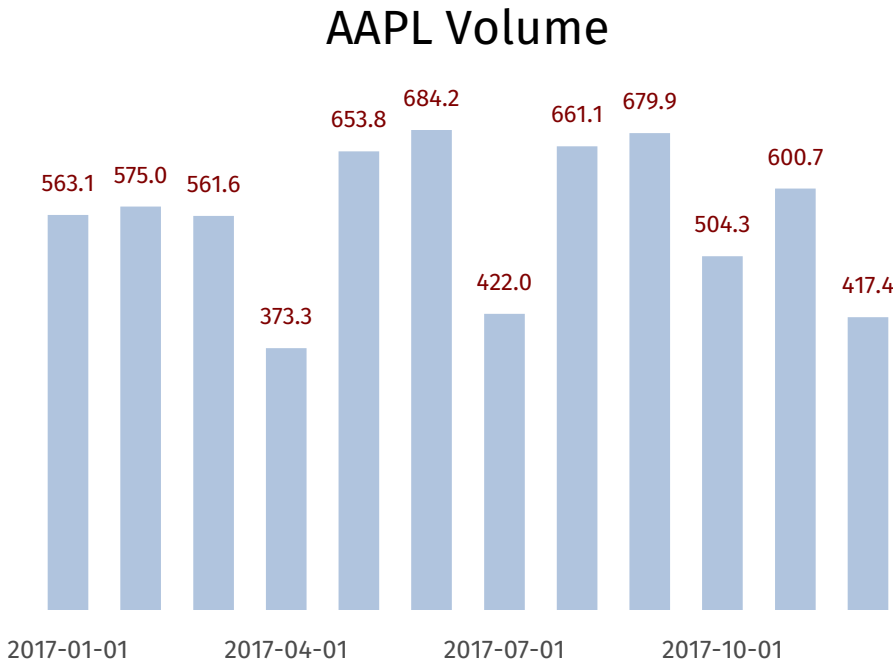


- White (39%)
- Hispanic (19%)
- Black (40%)
- Other (2%)

pgrid

#	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

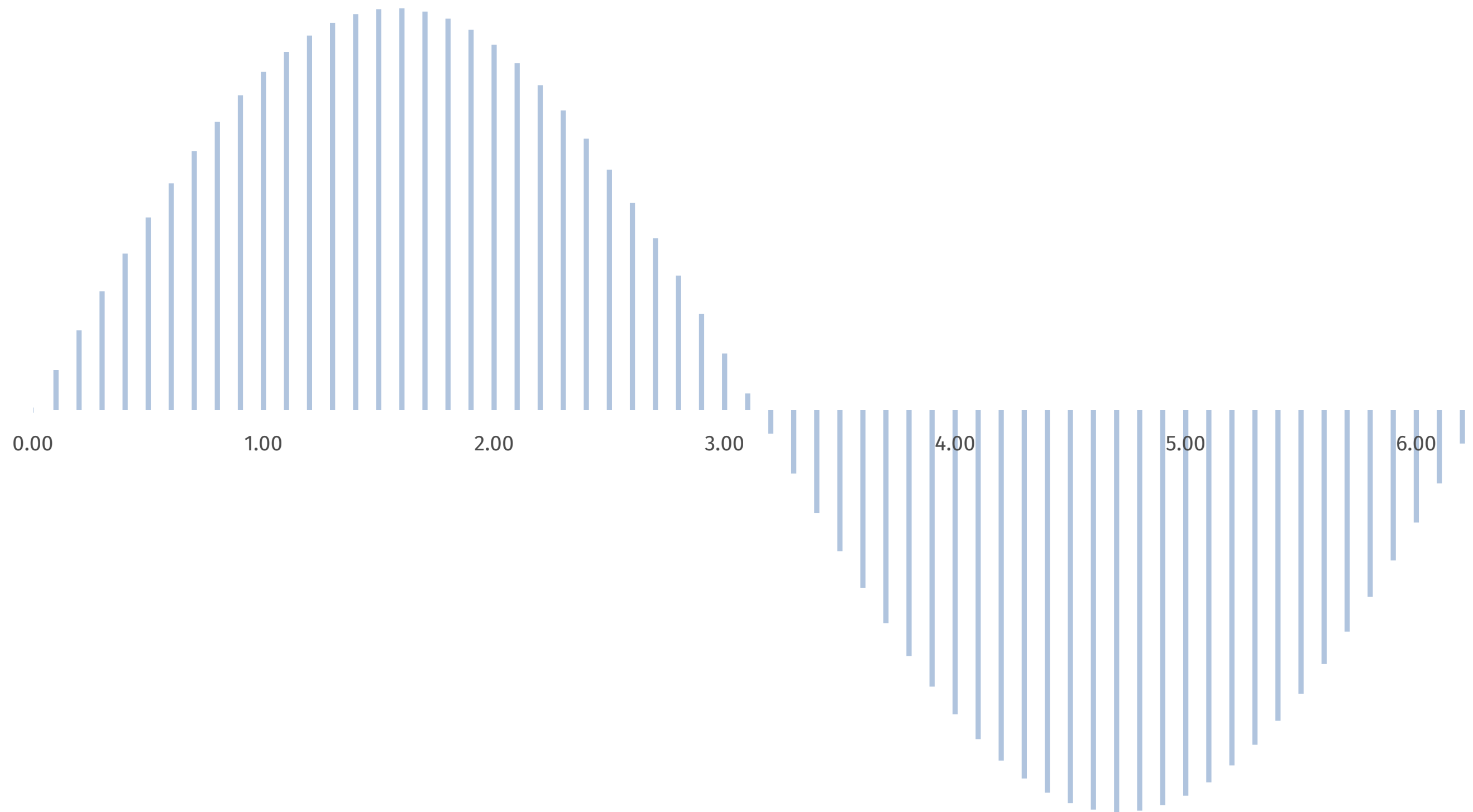
```
package main

import (
    "fmt"
    "math"
)

func main() {
    fmt.Println("# y=sin(x)")
    for x := 0.0; x < math.Pi*2; x += 0.1 {
        fmt.Printf("%.2f\t%.4f\n", x, math.Sin(x))
    }
}
```

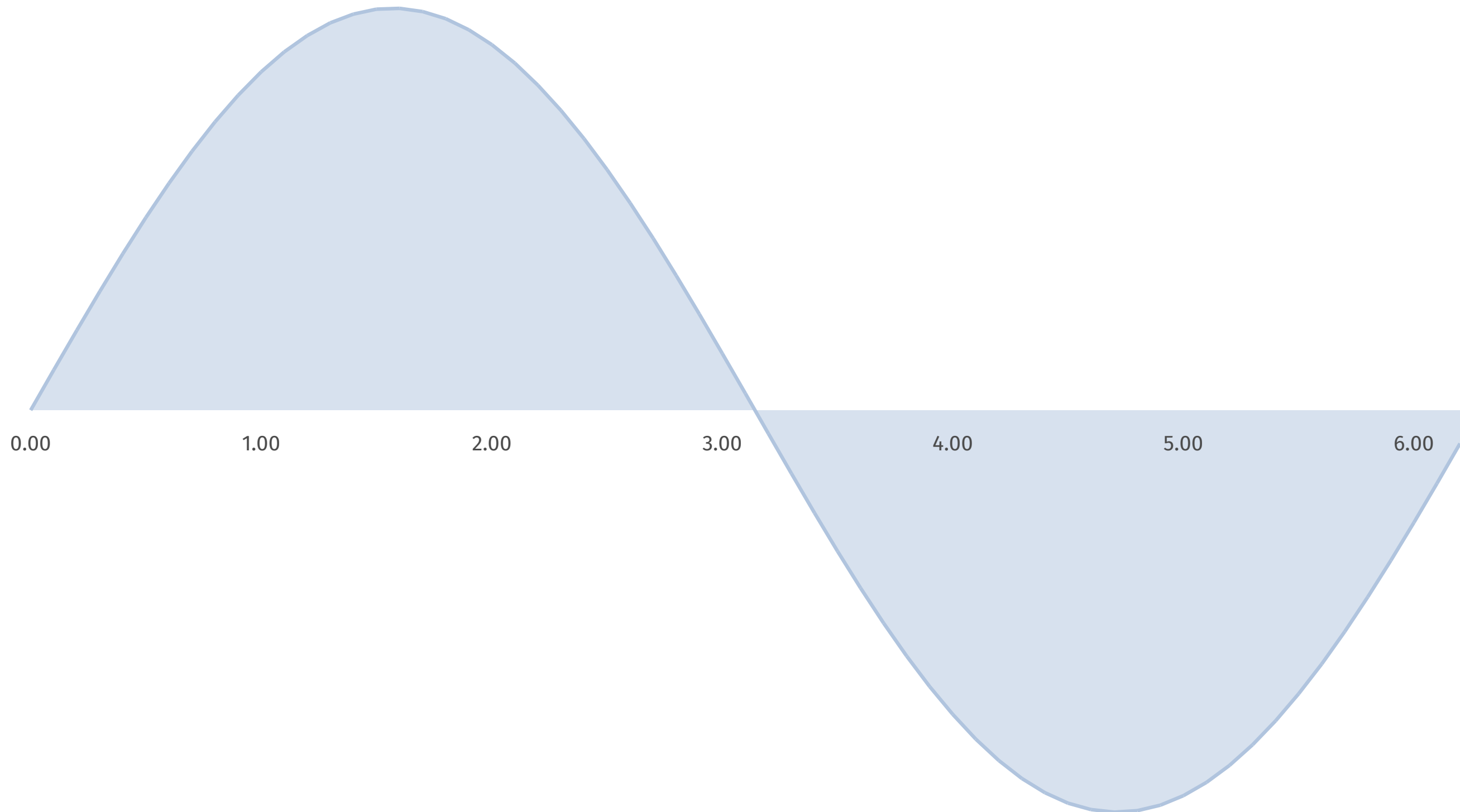
```
# y=sin(x)
0.00      0.00000
0.10      0.0998
0.20      0.1987
0.30      0.2955
0.40      0.3894
0.50      0.4794
0.60      0.5646
0.70      0.6442
0.80      0.7174
...
5.80     -0.4646
5.90     -0.3739
6.00     -0.2794
6.10     -0.1822
6.20     -0.0831
```


$$y=\sin(x)$$



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

$$y=\sin(x)$$



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

mfunc.go

```
package main

import (
    "flag"
    "fmt"
    "math"
)

type tfunc struct {
    label    string
    function func(float64) float64
}

func power(a, b int) int {
    p := 1
    for b > 0 {
        if b&1 != 0 {
            p *= a
        }
        b >>= 1
        a *= a
    }
    return p
}

func pow2(n float64) float64 {
    return float64(power(2, int(n)))
}

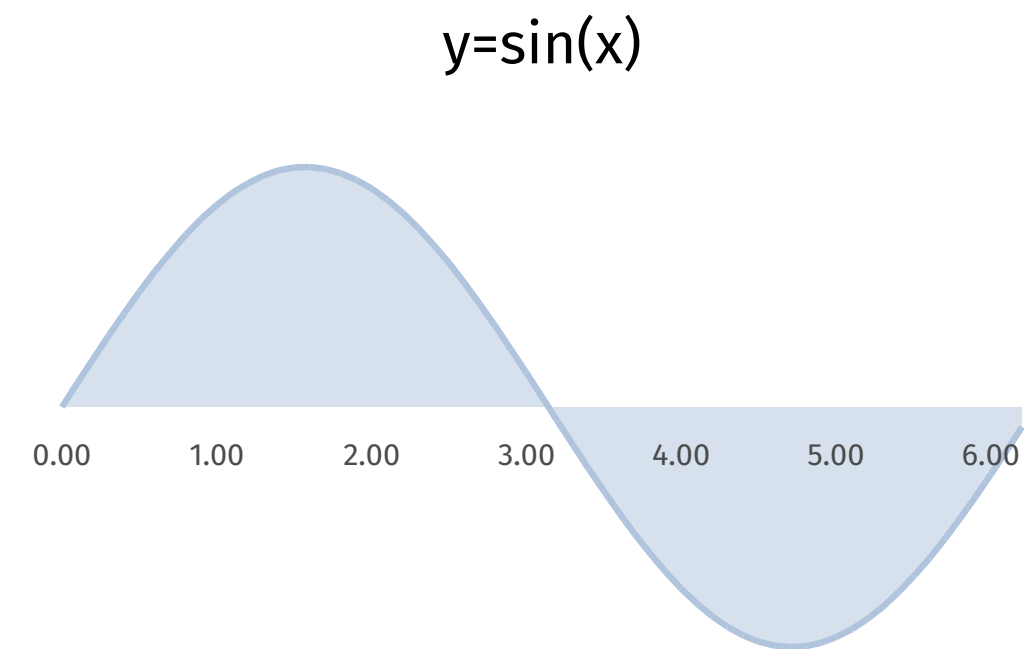
func linear(x float64) float64 {
    return x
}

func squared(x float64) float64 {
    return x*x
}

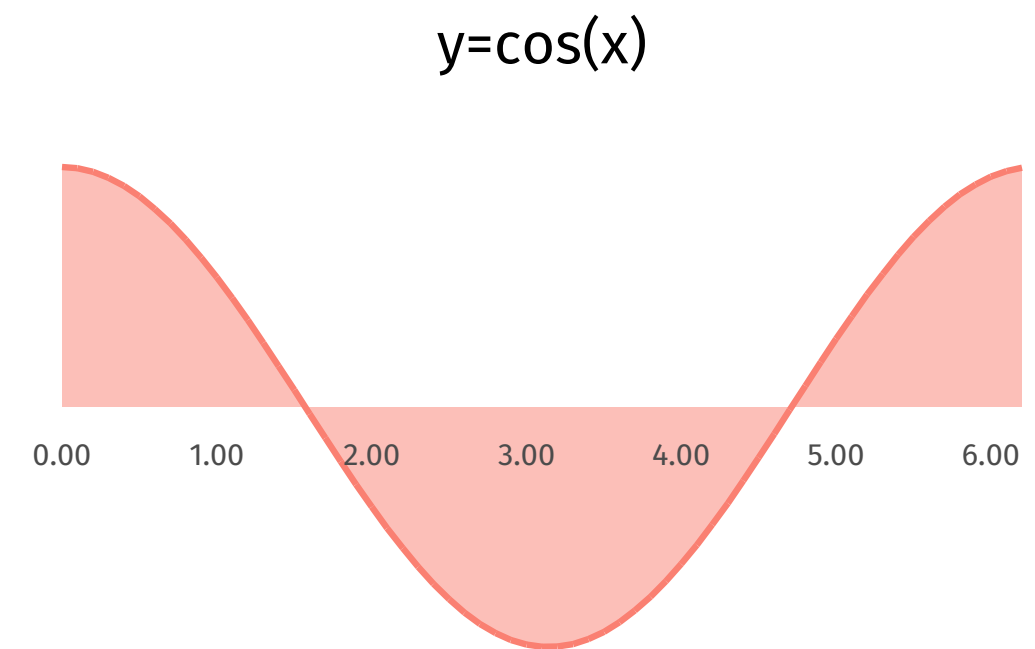
func main() {
    fname := flag.String("f", "sine", "function name")
    xrange := flag.String("x", "0,6.283185,0.1", "x range")
    flag.Parse()

    var (
        f      tfunc
        xmin   = 0.0
        xmax   = 2 * math.Pi
        xstep  = 0.1
    )
    fmt.Sscanf(*xrange, "%f,%f,%f", &xmin, &xmax, &xstep)
    switch *fname {
    case "square":
        f = tfunc{"v=x*x", squared}
    }
```

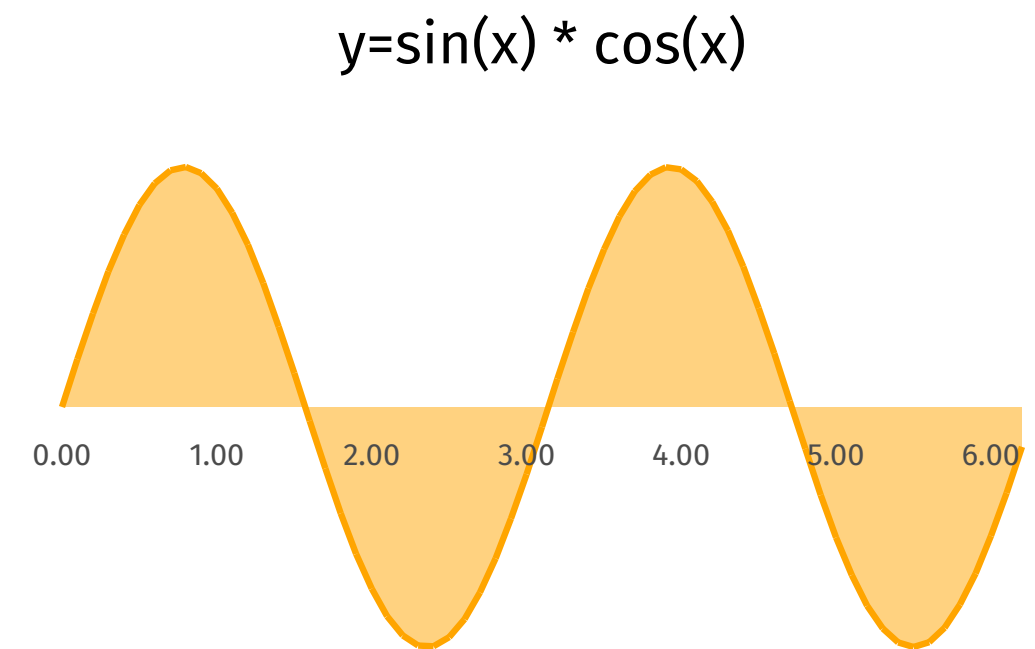
```
mfunc -f sine | dchart ... -top=90 -bottom=80
```



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



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



```
#!/bin/sh
mopts="-fulldeck=f -bar=f -vol -top=90 -bottom 60 -left=20 -right=8
mfunc -f sine | dchart $mopts -xlabel=10
mfunc -f cosine | dchart $mopts -xlabel=0 -color=orange
```

