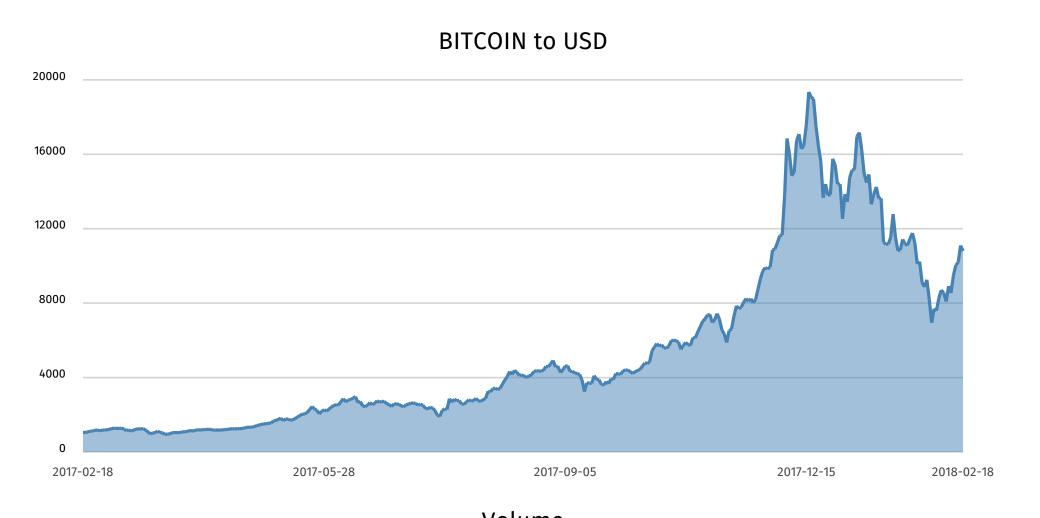
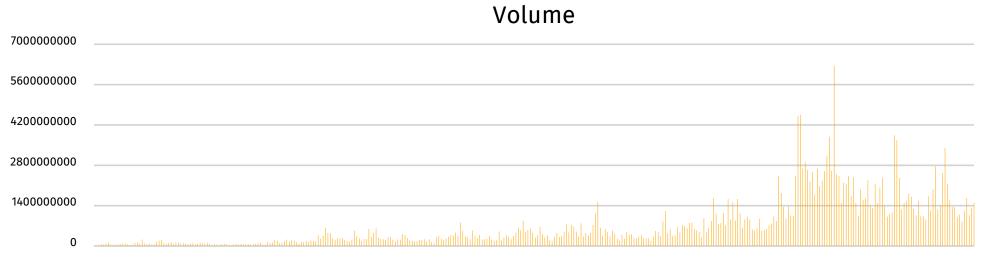
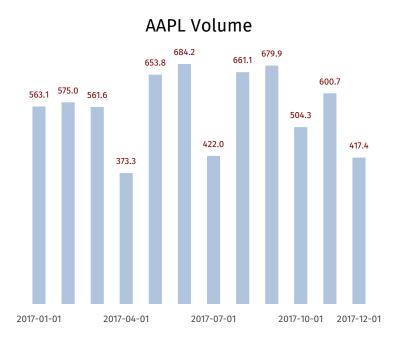
dchart charts for deck





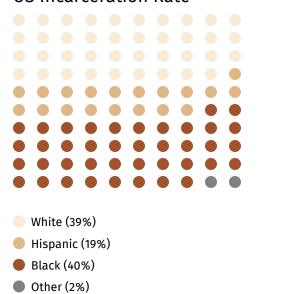




Browser Market Share Dec 2016-Dec 2017







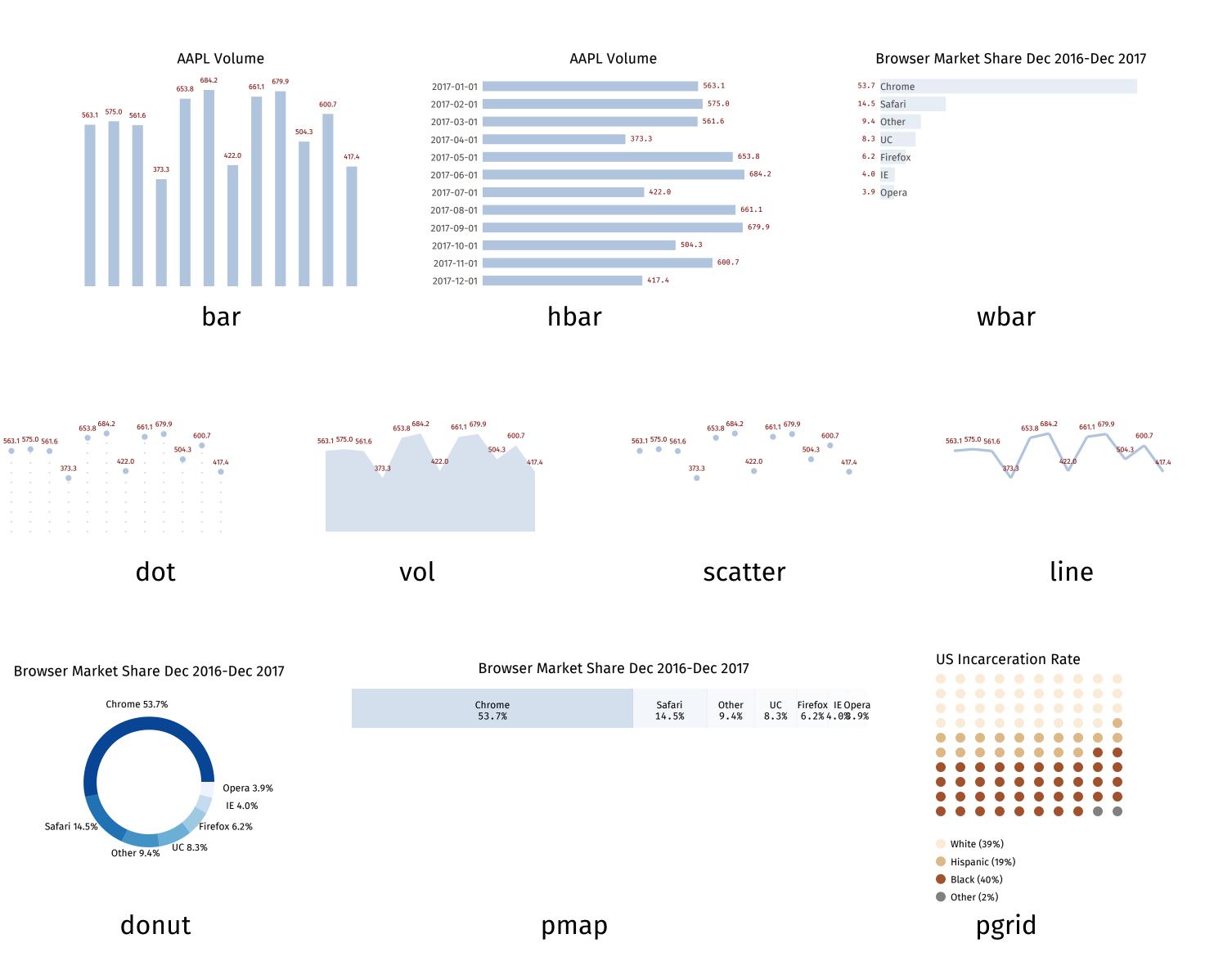


Chart Types

-bar bar chart (default true)

-wbar word bar chart (default false)

-hbar horizontal bar chart (default false)

-scatter scatter 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 (overiding 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)

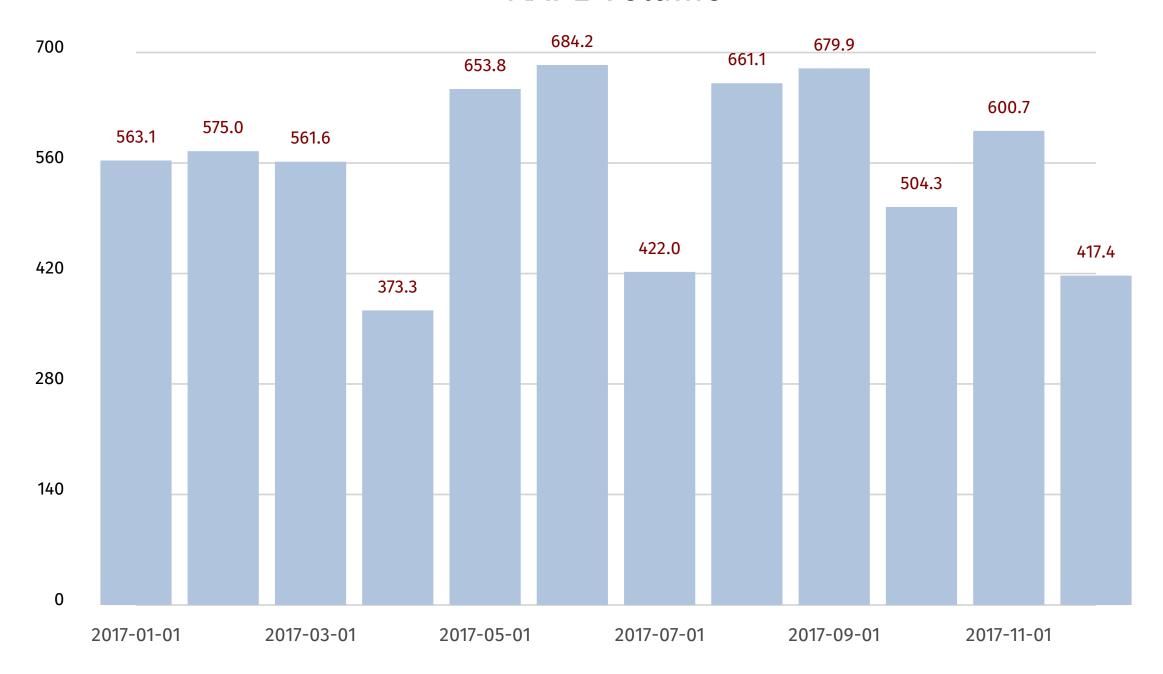
-color data color (default "lightsteelblue")

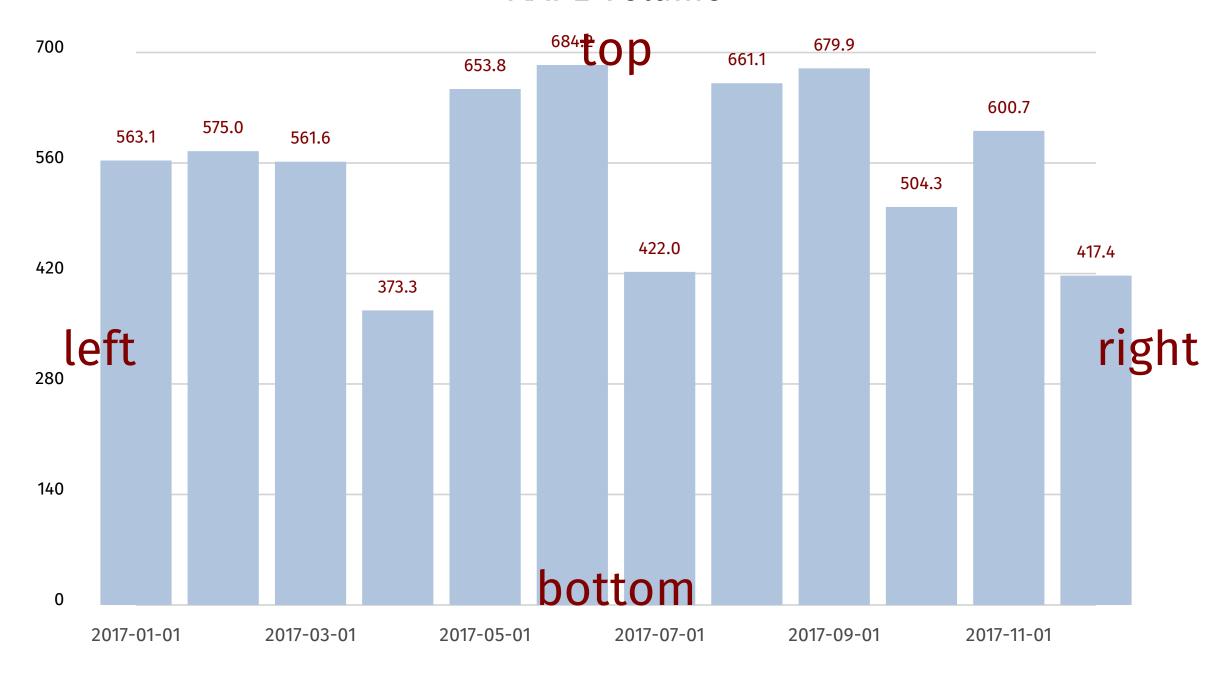
-vcolor value color (default "rgb(127,0,0)")

-datafmt data format for values (default "%.1f")

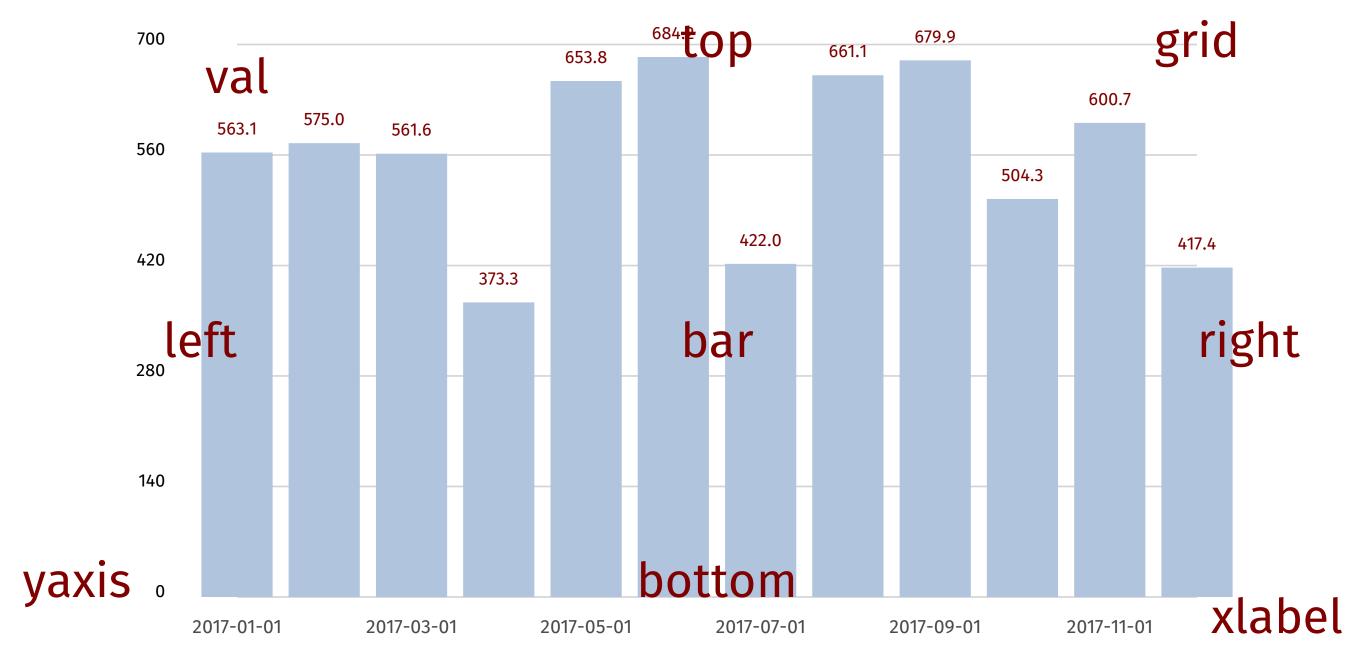
-psize diameter of the donut (default 30)

-pwidth width of the donut or proportional map (default 3)

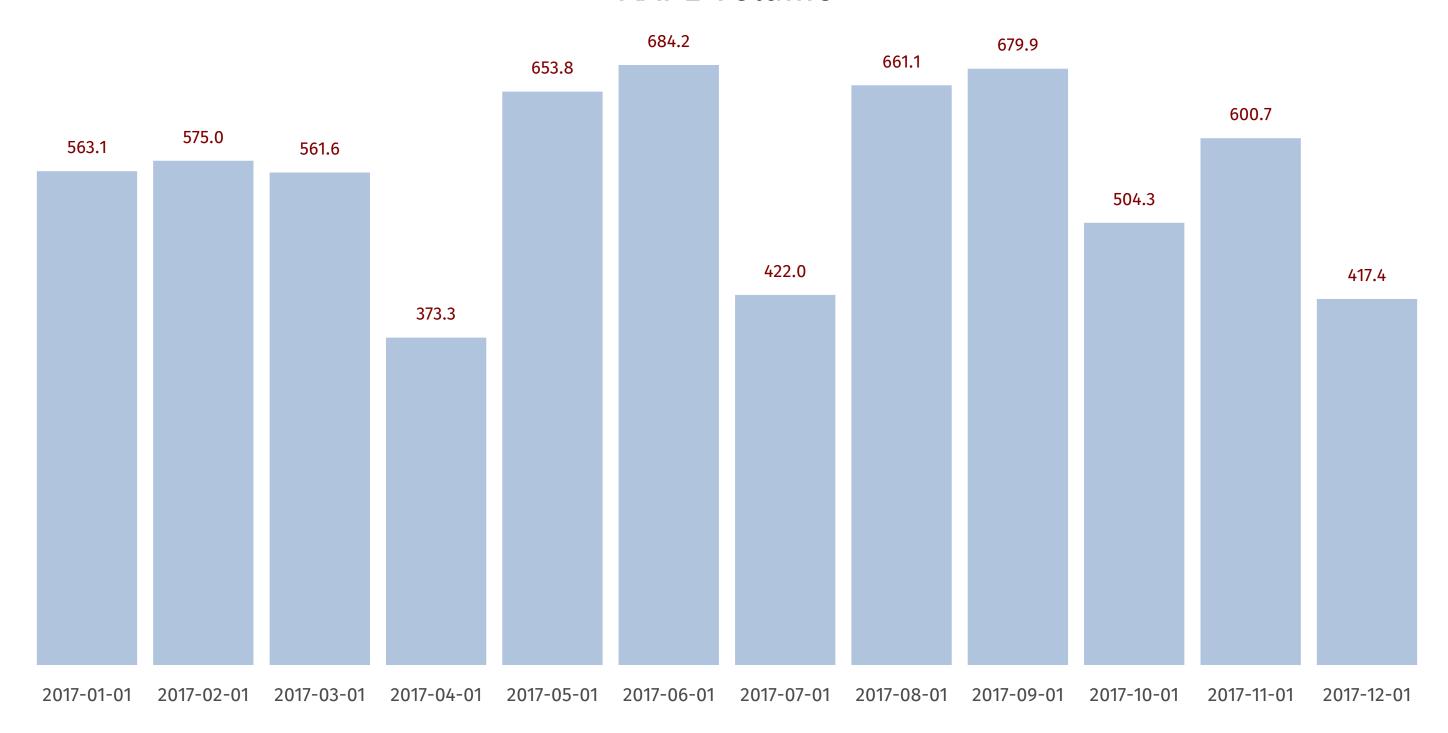




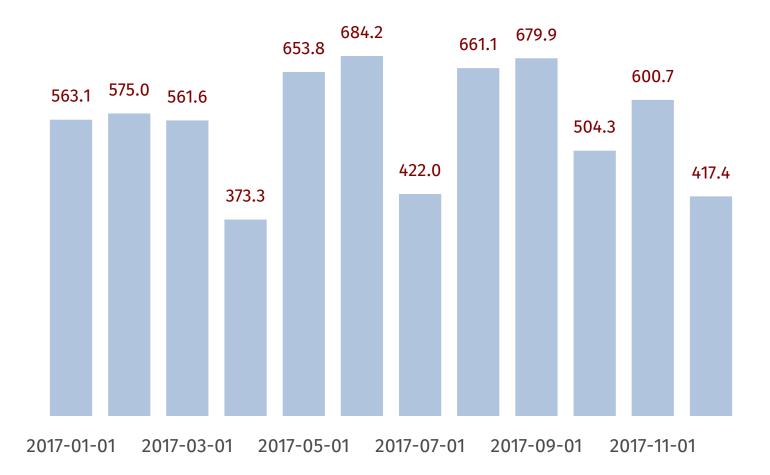




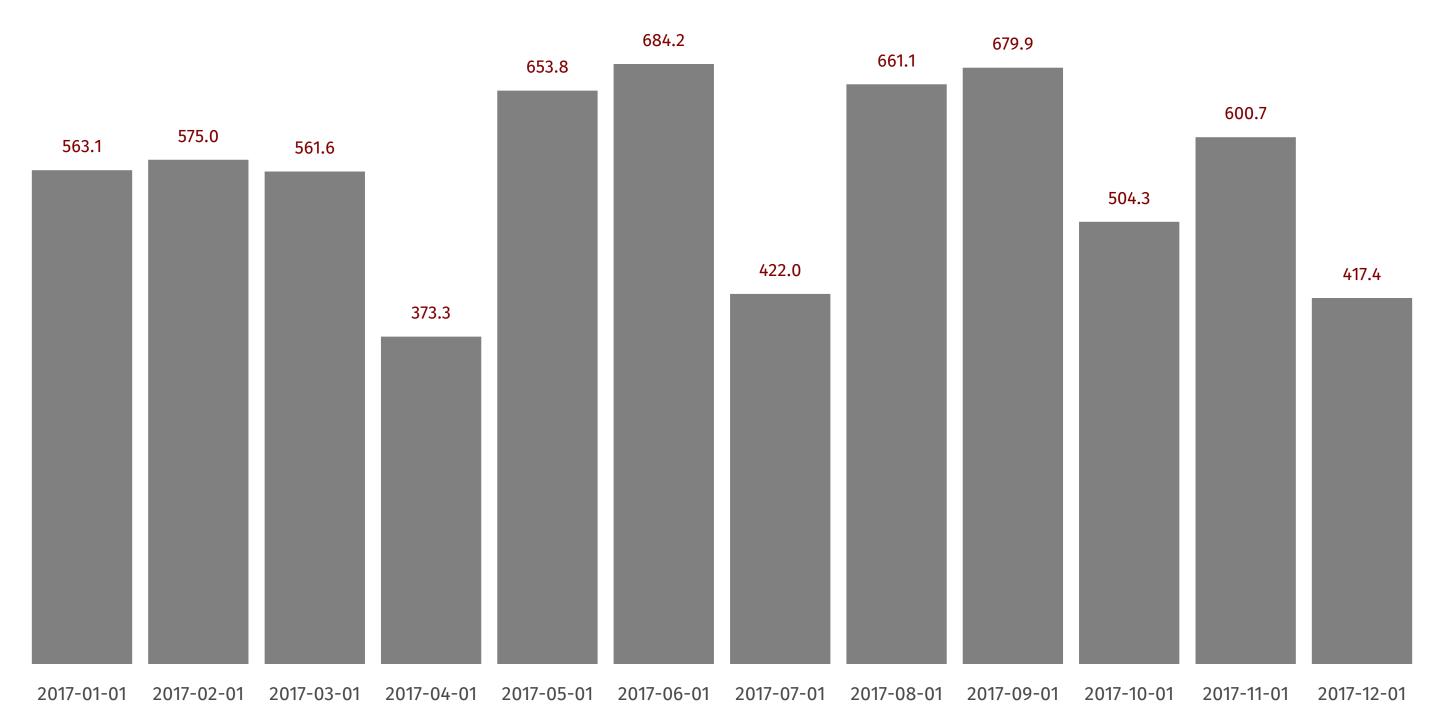
dchart -left=20 -right=80 -top=75 -yaxis -xlabel=2 -val -grid AAPL.d



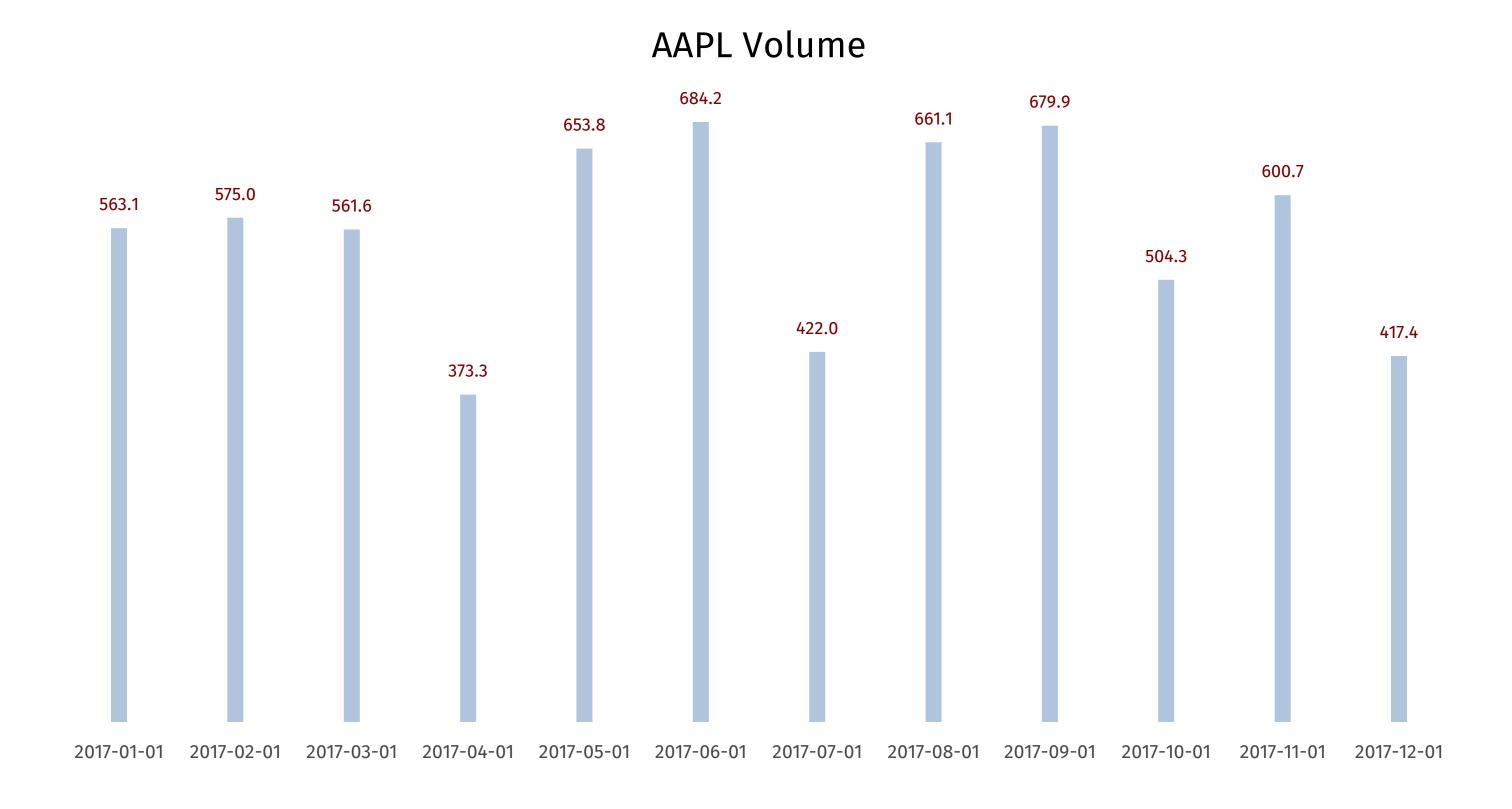
bar



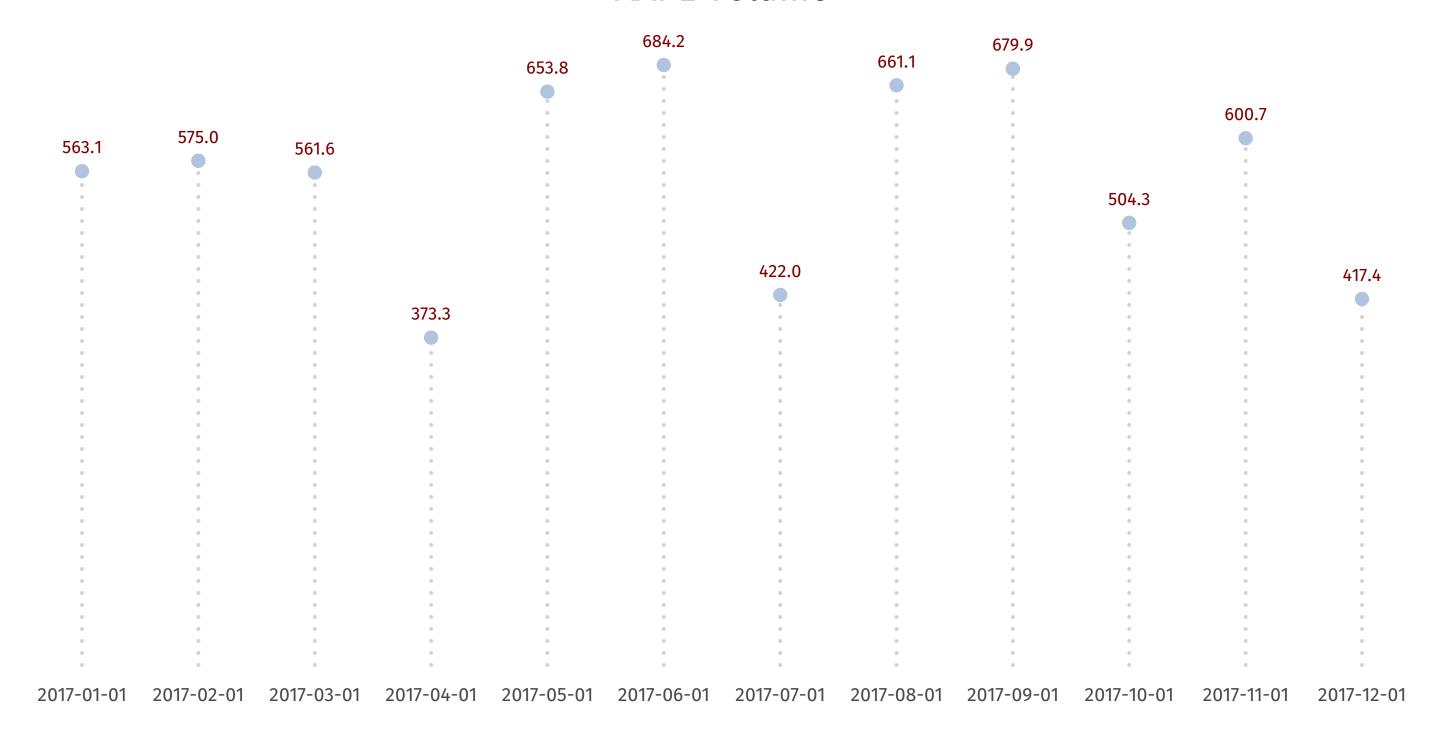
scaled bar



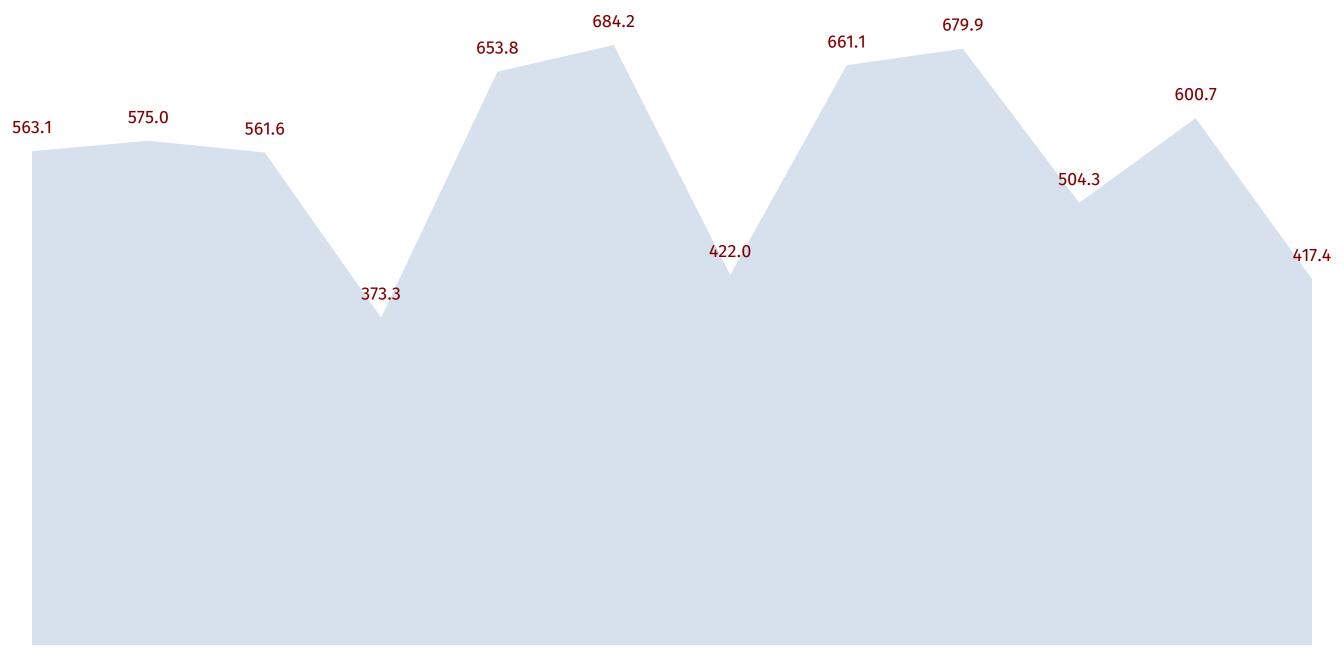
color change



barwith change



dot



2017-01-01 2017-02-01 2017-03-01 2017-04-01 2017-05-01 2017-06-01 2017-07-01 2017-08-01 2017-09-01 2017-10-01 2017-10-01 2017-10-01

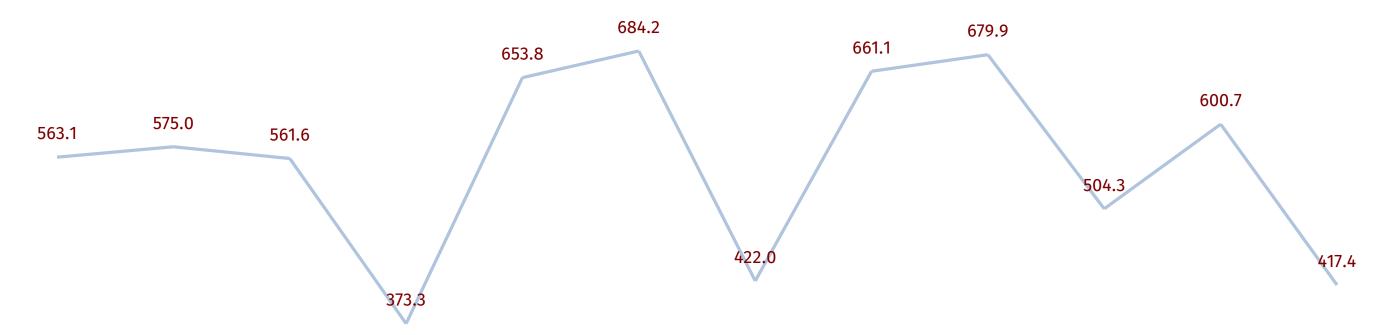
volume



dot + line + value

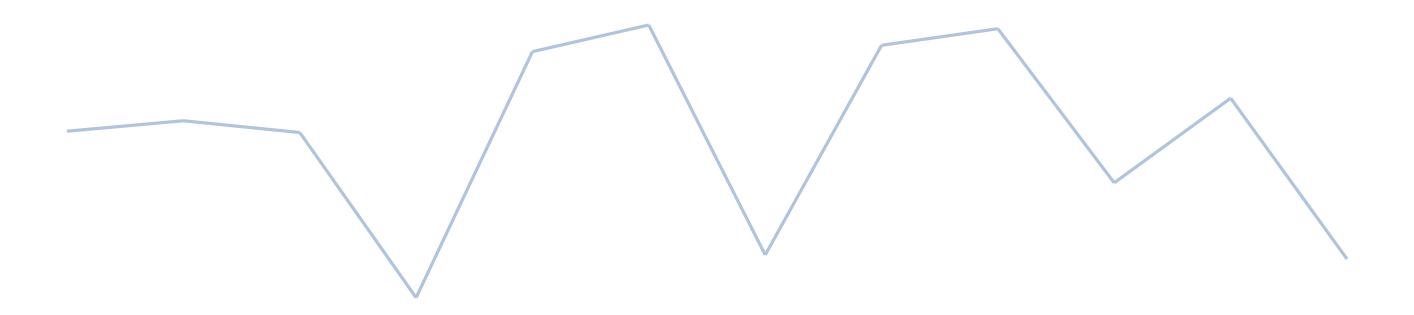
AAPL Volume 684.2 679.9 661.1 653.8 600.7 575.0 563.1 561.6 504.3 417.4 373.3 2017-05-01 2017-06-01 2017-07-01 2017-08-01 2017-09-01 2017-01-01 2017-02-01 2017-03-01 2017-04-01 2017-10-01 2017-12-01

dot + line + value + volume



2017-01-01 2017-02-01 2017-03-01 2017-04-01 2017-05-01 2017-06-01 2017-07-01 2017-08-01 2017-09-01 2017-10-01 2017-10-01 2017-10-01

line + value

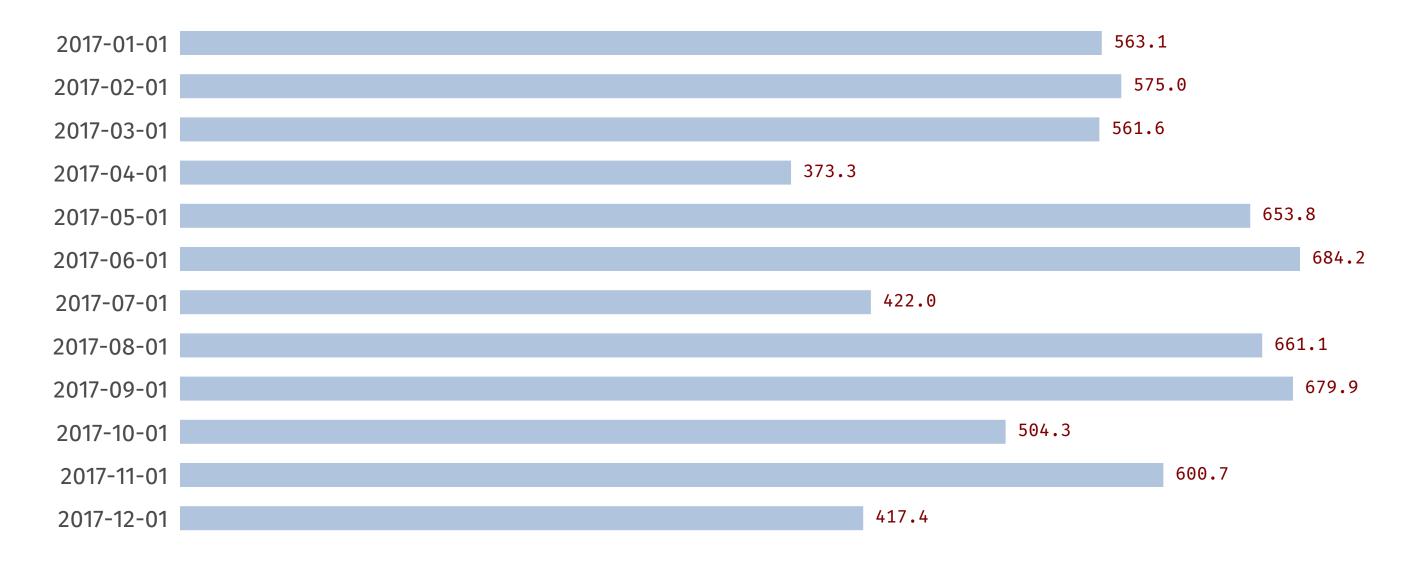


2017-01-01 2017-02-01 2017-03-01 2017-04-01 2017-05-01 2017-06-01 2017-07-01 2017-08-01 2017-09-01 2017-10-01 2017-10-01 2017-10-01

line only

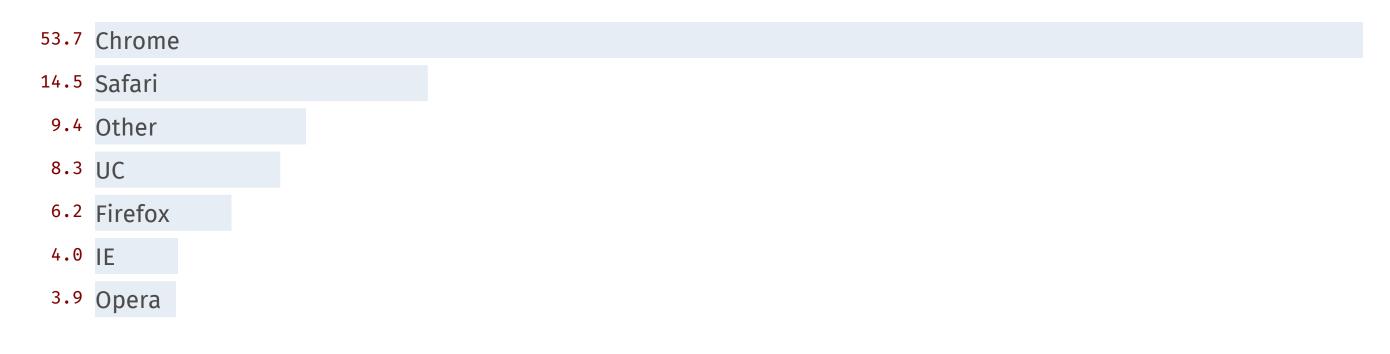
2017-01-01 2017-02-01 2017-03-01 2017-04-01 2017-05-01 2017-06-01 2017-07-01 2017-08-01 2017-09-01 2017-10-01 2017-10-01 2017-10-01

scatter

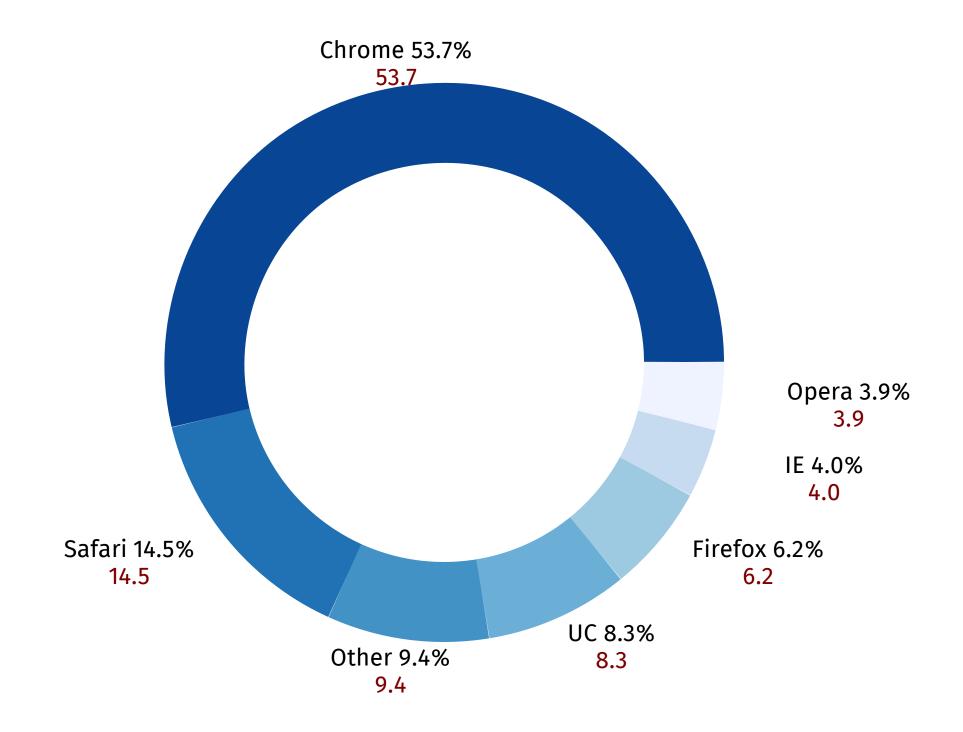


horizontal bar

Browser Market Share Dec 2016-Dec 2017



word bar

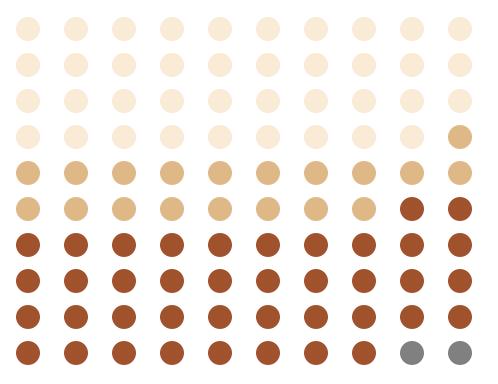


donut

Browser Market Share Dec 2016-Dec 2017

Chrome 53.7%	Safari 14.5%	Other 9.4%	UC 8.3%	Firefox 6.2%	IE Ope 4.0% 3.9	
53.7	14.5	9.4	8.3	6.2	4.0 3.9	9

US Incarceration Rate



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

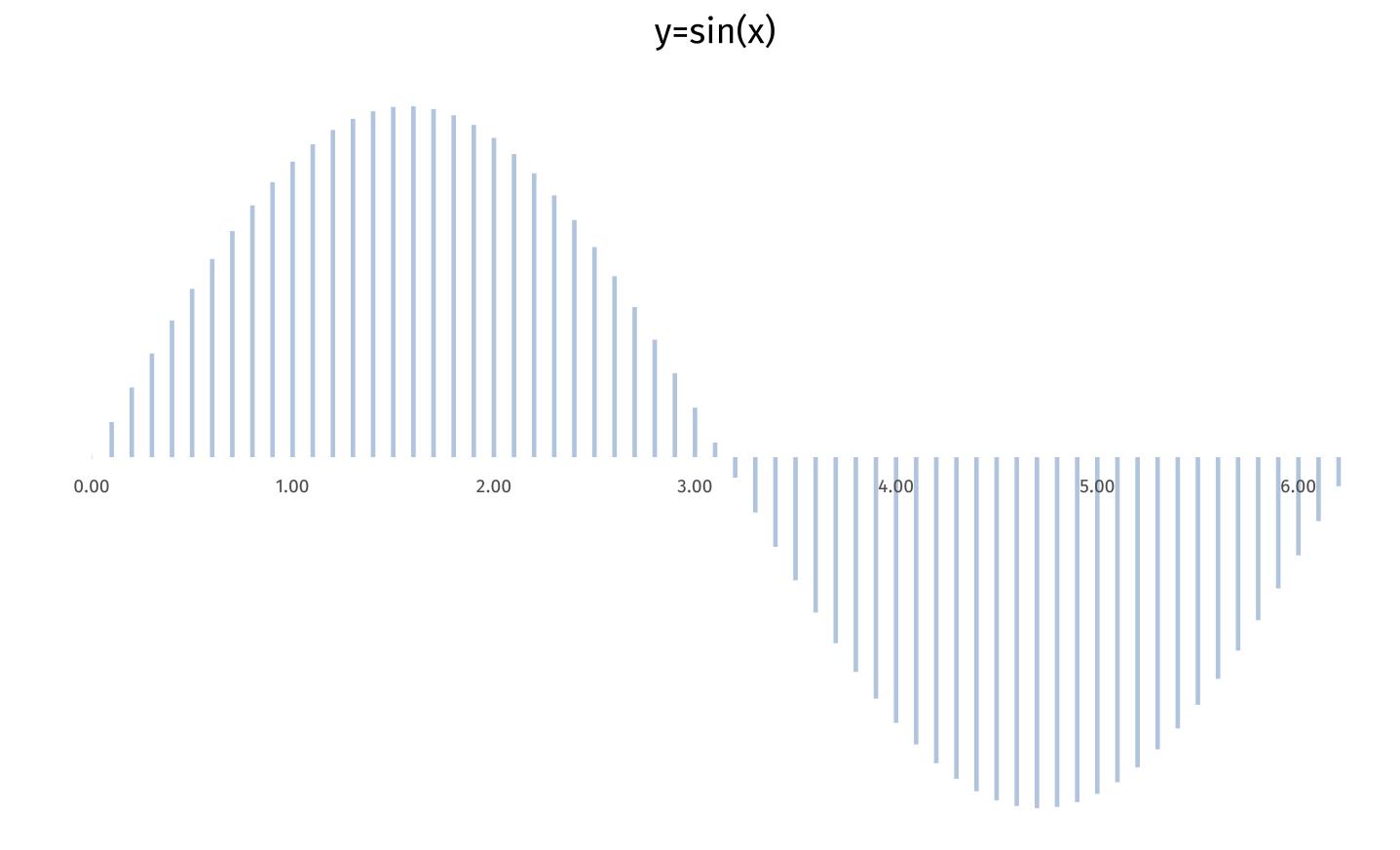
pgrid



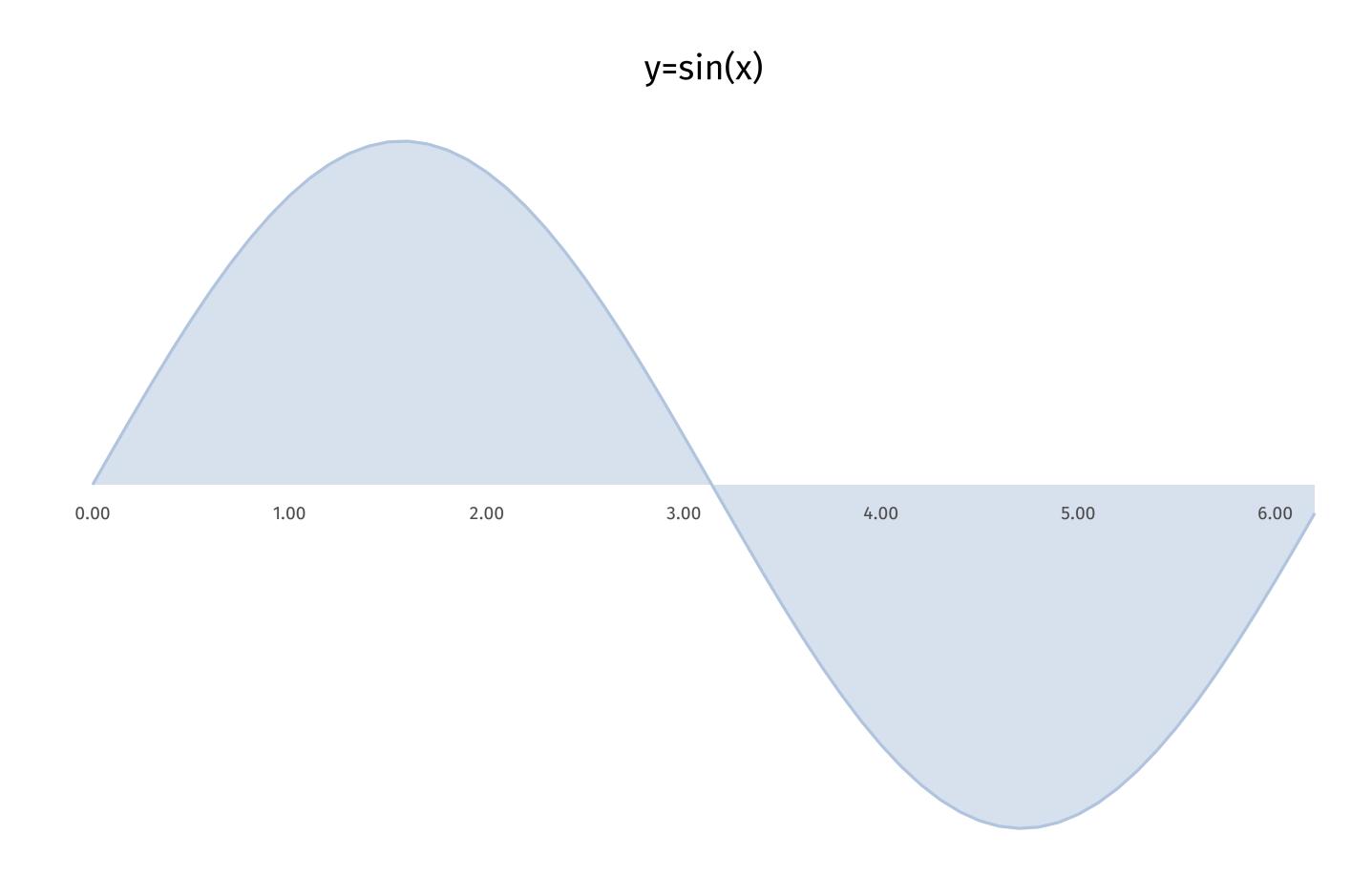
data | dchart | pdf

```
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
       0.0000
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
       0.7174
0.80
5.80
       -0.4646
5.90
       -0.3739
6.00
       -0.2794
6.10
       -0.1822
6.20
       -0.0831
```

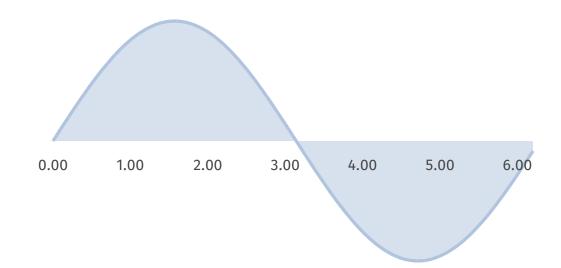


sine | dchart -val=f -bottom=50 -xlabel=10



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

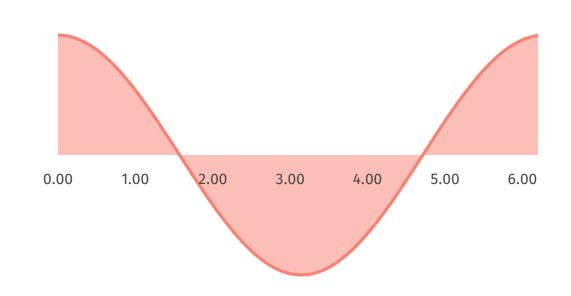
```
package main
import (
                                           mfunc.go
    "flag"
    "fmt"
    "math"
type tfunc struct {
   label
            string
   function func(float64) float64
}
func main() {
   fname := flag.String("f", "sine", "function name")
   xrange := flag.String("x", "0,6.283185,0.1", "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 "e", "exp":
       f = tfunc{"y=e(x)", math.Exp}
   case "log":
       f = tfunc{"y=log(x)", math.Log10}
    case "sqrt":
       f = tfunc{"y=sqrt(x)", math.Sqrt}
   case "sine", "sin":
       f = tfunc{"y=sin(x)", math.Sin}
   case "cosine", "cos":
       f = tfunc{"y=cos(x)", math.Cos}
   case "sincos":
       f = tfunc{"y=sin(x) * cos(x)",}
           func(x float64) float64 { return math.Sin(x) * math.Cos(x) }}
   default:
       f = tfunc{"y=1", func(float64) float64 { return 1 }}
   fmt.Printf("# %s\n", f.label)
   for x := xmin; x < xmax; x += xstep {</pre>
       fmt.Printf("%.2f\t%.4f\n", x, f.function(x))
}
```



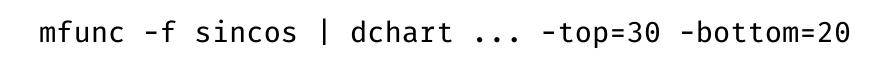
mfunc -f sine | dchart ... -top=90 -bottom=80

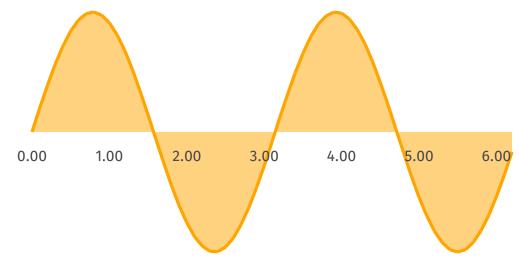
y=cos(x)

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



y=sin(x) * cos(x)





```
#!/bin/sh
dim="-top=50 -bottom=30 -left=20 -right=80"
copt="-fulldeck=f -title=f -val=f -bar=f -line -vol"
(
echo '<deck><slide>'
./mfunc -f cos | dchart $copt $dim -xlabel=10 -color=orange
./mfunc -f sin | dchart $copt $dim -xlabel=0
echo '</slide></deck>'
)
```

