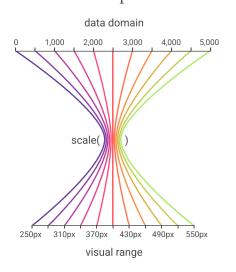
Plot: Scales

Scales project your data from an abstract data domain to a visual range

O Observable version 0.4.0

Working with scales

How scales map values:



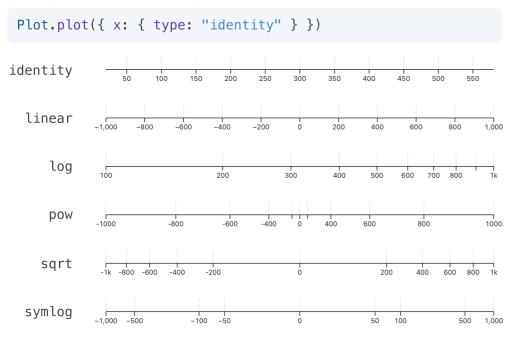
Configure the scale for each channel:

Scale options:

Label and tick options:

Quantitative

Display continuous data by setting one of these types:



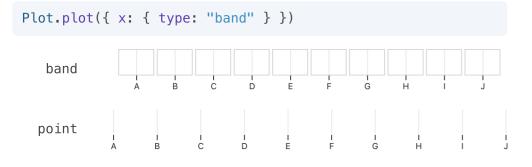
Specify a tickFormat: "[symbol][comma][precision][type]"

<pre>Plot.plot({ x: { tickFormat: ".2s" } }</pre>	Plot.	plot({	x: {	tickFormat:	".2s"	} }	-)
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Syntax	Description	format(0.00013)	format(543005)
\$	Currency symbol	\$0.00013	\$543005
,	Comma separated	0.00013	543,005
.2	Precision of 2 digits	0.00013	5.4e+5
.5	Precision of 5 digits	0.00013	5.4301e+5
s	International System of Units (SI).	130.000μ	543.005k
е	Exponent notation	1.300000e-4	5.430050e+5
f	Fixed point notation	0.000130	543005.000000
р	Percentage notation	0.0130000%	54300500%
.2s	Two significant digits, shown in SI.	130μ	540k
,.1f	Comma separated, one fixed value after the decimal place	0.0	543,005.0
,.1p	Comma separated, one digit, percentage type	0.01%	50,000,000%
\$,.1	Currency syntax, Comma separated, one digit, percentage type	\$0.0001	\$5e+5

Categorical

Display categorical data by setting one of these types:



Customize your ticks using a function:

```
Plot.plot({ x: { tickFormat: (d) => `Group ${d}` } })

tickFormat: d => `Group ${d}`

tickFormat: d => d.toLowerCase()

tickFormat: (d, i) => `${d}: ${i}`

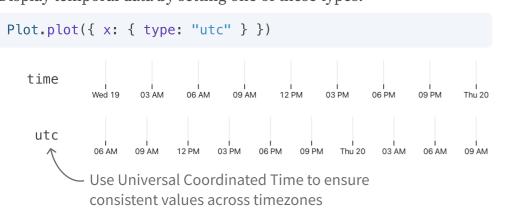
A:0

B:1

C:2
```

Date

Display temporal data by setting one of these types:



e.g. Saturday January 01, 2022

Compose a time formatter using this syntax:



Year	Month	Day	Hour	Minute	Second	Misc
%Y 2022	%B January	%A Saturday	%I 04	%M 00	%S 00	%p AM
%y 22	%b Jan	%a Sat	%H 16			
	%m 01	%d 01				
		%e 1				