I want hue

i want hue

Colors for data scientists. Generate and refine palettes of optimally distinct colors.

Color space

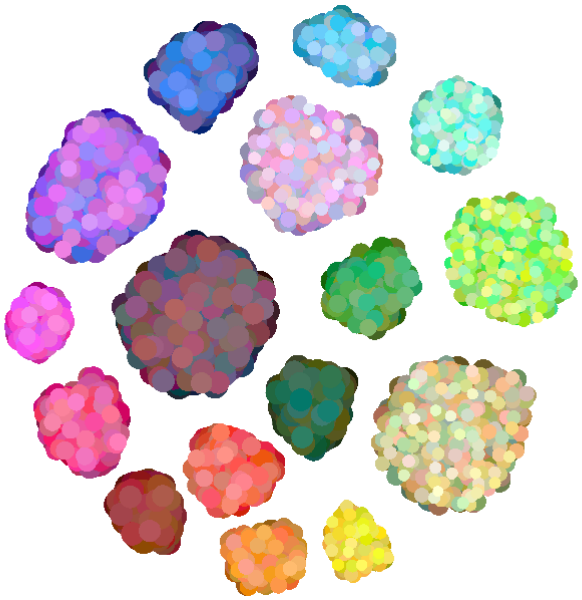
Palette

All colors

H	0	360
C	0	100
L	0	100

☐ Improve for the **colorblind** (slow)

☐ Dark background



16 colors

hard (Force vector)

Reroll palette

Sort by diff hue chroma lightness random

Fit to color space

Colors

#db1f70
HEX

219,31,112
RGB

#7a0000
HEX

122,0,0
RGB

#dc4e34
HEX

220,78,52
RGB

#f0843a
HEX

240,132,58
RGB

#f1c000 HEX **241,192,0** RGB

#ad9e6e HEX **173,158,110** RGB

#96d85b HEX **150,216,91** RGB

#387f1e HEX **56,127,30** RGB

#0e3500 HEX **14,53,0** RGB

#7becf1 HEX **123,236,241** RGB

#51bfe9 HEX **81,191,233** RGB

#003e8c **0,62,140**

HEX RGB

#884dc5 **136,77,197**
HEX RGB

#b99dc2 **185,157,194**
HEX RGB

#e600b5 **230,0,181**
HEX RGB

#583949 **88,57,73**
HEX RGB

Differenciation report only available for 10 colors or less

JSON

HEX json


```
["#db1f70",
"#7a0000",
"#dc4e34",
"#f0843a",
"#f1c000",
"#ad9e6e",
"#96d85b",
"#387f1e",
"#0e3500",
"#7becf1",
"#51bfe9",
"#003e8c",
```

```
"#884dc5",
"#b99dc2",
"#e600b5",
"#583949"]
```

RGB json

```
[[219,31,112],
[122,0,0],
[220,78,52],
[240,132,58],
[241,192,0],
[173,158,110],
[150,216,91],
[56,127,30],
[14,53,0],
[123,236,241],
[81,191,233],
[0,62,140],
[136,77,197],
[185,157,194],
[230,0,181],
[88,57,73]]
```

HCL json

```
[[3,72.059,48.529],
[38,58.871,24.126],
[39,70.102,52.859],
[57,66.669,66.011],
[87,81.629,79.843],
[94,27.159,65.33],
[127,68.02,79.812],
[133,59.185,47.122],
[134,35.727,18.538],
[202,33.289,87.265],
[238,35.459,72.82],
[288,50.482,27.676],
[312,71.806,45.044],
[318,22.829,68.259],
[339,90.437,52.022],
[346,17.021,28.067]]
```

LAB json

```
[[48.529,71.963,3.71],
[24.126,46.414,36.214],
[52.859,54.13,44.544],
[66.011,36.069,56.07],
[79.843,3.865,81.538],
[65.33,-1.729,27.104],
[79.812,-41.372,53.991],
```

```
[47.122,-40.408,43.244],
[18.538,-24.745,25.771],
[87.265,-30.903,-12.375],
[72.82,-18.663,-30.15],
[27.676,15.731,-47.969],
[45.044,47.927,-53.471],
[68.259,17.051,-15.18],
[52.022,84.517,-32.181],
[28.067,16.501,-4.173]]
```

CSS

HEX list for CSS

```
#db1f70
#7a0000
#dc4e34
#f0843a
#f1c000
#ad9e6e
#96d85b
#387f1e
#0e3500
#7becf1
#51bfe9
#003e8c
#884dc5
#b99dc2
#e600b5
#583949
```

RGB list for CSS

```
rgb(219,31,112)
rgb(122,0,0)
rgb(220,78,52)
rgb(240,132,58)
rgb(241,192,0)
rgb(173,158,110)
rgb(150,216,91)
rgb(56,127,30)
rgb(14,53,0)
rgb(123,236,241)
rgb(81,191,233)
rgb(0,62,140)
rgb(136,77,197)
rgb(185,157,194)
rgb(230,0,181)
rgb(88,57,73)
```

Javascript

Generate a palette with these settings

```
// Generate colors (as Chroma.js objects)
var colors = paletteGenerator.generate(
  16, // Colors
  function(color){ // This function filters valid colors
    var hcl = color.hcl();
    return hcl[0]>=0 && hcl[0]<=360
      && hcl[1]>=0 && hcl[1]<=100
      && hcl[2]>=0 && hcl[2]<=100;
  },
  true, // Using Force Vector instead of k-Means
  50, // Steps (quality)
  false, // Ultra precision
  'Default' // Color distance type (colorblindness)
);
// Sort colors by differenciation first
colors = paletteGenerator.diffSort(colors, 'Default');
```

Requirements: This code snippet needs Chroma.js and our own Palette-Gen lib.

Note: You can also install the npm package by running `npm install iwanthue`

We used:
Sigma.js, Prettify, Bootstrap, jQuery, Modernizr, Initializr

Check our GitHub.

See also our other tools at **Médialab Tools**!

And a huge **thanks** to these inspiring works:

Chroma.js
I massively use this excellent js library to convert colors. If you have not done it yet, look at this post. You'll understand much useful things about color in dataviz.

ColorBrewer
Very famous tool, that showed the way few years ago. If you do not know it, you *must* take a look.

SciencesPo. médialab

Developed by Mathieu Jacomy
at the Sciences-Po Medialab

Help, bug report or contacting us:
GitHub Issues.