

Converting Colors

XYZ(38.9456, 18.3415, 80.2393)

Have a look what the booklet for
XYZ(38.9456, 18.3415, 80.2393)
contains.

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Color

**XYZ(38.8148, 18.2775,
80.0794)**

Conversions

Conversions Part 1

Format	Color
Hex	C800EB
RGB	200, 0, 235
RGB Percent	78%, 0%, 92%
CMY	0.2157, 0.9999, 0.0784
CMYK	0.15, 1.00, 0.00, 0.08
HSL	291°, 100%, 46%
HSV	291°, 100%, 92%
XYZ	38.8148, 18.2775, 80.0794
YIQ	86.5900, 43.7650, 115.4850

Conversions

Conversions Part 2

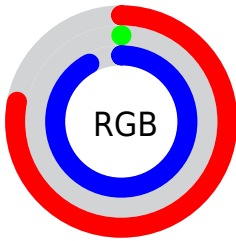
Format	Color
R_{YB}	200, 0, 235
Decimal	13107435
CIE _{Lab}	49.83, 87.20, -67.03
CIE _{LCh}	50, 109.987, 322.452
Yxy	18.2775, 0.2830, 0.1332
Android (android.graphics.Color)	4291297515 (0xFFC800EB)
YUV	86.5900, 73.1661, 99.4606
Hunter-Lab	42.7522, 87.2442, -81.1299

Details

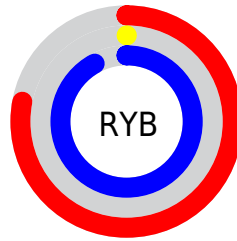
The XYZ color **38.8148, 18.2775, 80.0794** is a dark color, and the websafe version is hex **CC33FF**. The color can be described as middle washed magenta. A complement of this color would be **30.4023, 59.7745, 9.9358**, and the grayscale version is **8.8159, 9.2751, 10.1005**.

A 20% lighter version of the original color is **63.2927, 36.4854, 98.3142**, and **18.8511, 8.7898, 42.8225** is the 20% darker color. If you saturate the color by 10%, you get **38.8147, 18.2775, 80.0797**, and if you desaturate by 10%, it is **40.0779, 19.3989, 80.2296**.

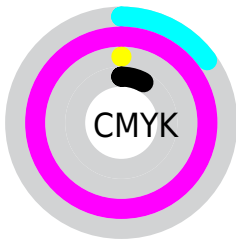
Distribution



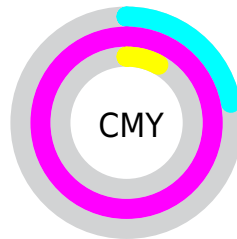
- Red (78%)
- Green (0%)
- Blue (92%)



- Red (78%)
- Yellow (0%)
- Blue (92%)



- Cyan (15%)
- Magenta (100%)
- Yellow (0%)
- Black (8%)





- Cyan (22%)
- Magenta (100%)
- Yellow (8%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 38.8148, 18.2775, 80.0794 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 38.8148, 18.2775, 80.0794 by changing the saturation by 10% instead.


 38.8148, 18.2775,
80.0794


 38.8148, 18.2775,
80.0794

332.3232,
242.4306, 514.9142


 26.7958, 11.1494,
59.2571


 72.6512, 40.5096,
135.2898


 17.5557, 6.1674,
42.3988

 95.1993, 56.3824,
170.5150


 10.7292, 2.9471,
29.0858


 121.9877, 75.9389,
211.3782

 5.9510, 1.1042,
18.8996

 153.3819, 99.5635,
258.2980

 2.8557, 0.0000,
11.4217

 189.7472,
127.6405, 311.6930

 1.0779, 0.0000,
6.2335

 231.4489,

 0.0065, 0.0000,

160.5545, 371.9817

2.9165

278.8525,
198.6897, 439.5826

■ 0.0000, 0.0000,
1.0522

■ 0.0000, 0.0000,
0.0000

■ 38.8148, 18.2775,
80.0794

■ 38.8148, 18.2775,
80.0794

■ 38.8147, 18.2775,
80.0797

■ 40.0779, 19.3989,
80.2296

■ 41.7455, 21.2985,
80.5083

■ 43.9399, 24.2192,
80.9564

■ 46.7322, 28.3035,
81.5976

■ 50.1823, 33.6709,
82.4518

■ 54.3428, 40.4261,
83.5364

■ 59.2606, 48.6630,
84.8671

■ 64.9786, 58.4672,
86.4581

■ 71.5365, 69.9178,
88.3227

Harmonies

Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



26.2856, 18.2775, 135.5509



38.8148, 18.2775, 80.0794



46.0790, 18.2775, 28.5090

Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



38.8148, 18.2775, 80.0794



20.1631, 18.2775, 0.0000



4.5919, 18.2775, 51.1821

Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



38.8148, 18.2775, 80.0794



30.4023, 59.7745, 9.9358

Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



4.0556, 18.2775, 13.2279



38.8148, 18.2775, 80.0794



10.7429, 18.2775, 0.0000

Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



38.8148, 18.2775, 80.0794



32.8204, 18.2775, 0.0000



5.7738, 18.2775, 1.3661



7.7403, 18.2775, 110.0368

Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



38.8148, 18.2775, 80.0794



45.5062, 18.2775, 9.8514



5.7738, 18.2775, 1.3661



4.1705, 18.2775, 35.1639

Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



38.8157, 18.2783, 80.0798



71.2417, 58.4228, 102.1296



15.6046, 7.2161, 79.1679



14.6888, 11.5605, 21.7072



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



38.8157, 18.2783, 80.0798



46.6713, 21.9748, 96.3895



39.9910, 19.9545, 31.7756



15.4816, 15.1935, 19.0389



21.6881, 10.2166, 44.5719



1.7630, 0.8331, 3.5028

Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



34.5649, 17.7841, 3.2023



41.5895, 21.3998, 3.7706



31.2417, 60.0302, 17.9755



15.1569, 15.0906, 16.1115



19.2652, 9.9088, 1.9320



1.5410, 0.7894, 0.3002

Previews

White Background



This preview shows how the XYZ color 38.8148, 18.2775, 80.0794 looks on a white background.

Color Contrast Check

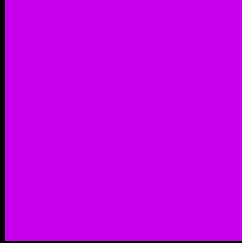
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



This preview shows how the XYZ color 38.8148, 18.2775, 80.0794 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

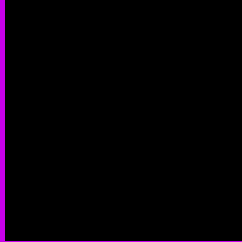
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 38.8148, 18.2775, 80.0794

Background



This preview shows how black text looks on a background with the XYZ color 38.8148, 18.2775, 80.0794.



This preview shows how white text looks on a background with the XYZ color 38.8148, 18.2775,

Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

Dichromacy



Original Color

38.8148, 18.2775, 80.0794

Deuteranopia

19.3542, 18.8769, 67.5893

Tritanopia

25.3707, 18.5002, 14.0381

Trichromacy



Original Color

38.8148, 18.2775, 80.0794



Deuteranomaly

18.7913, 12.1930, 71.1751



Tritanomaly

27.8955, 16.0849, 29.6514

Monochromacy



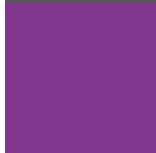
Original Color

38.8148, 18.2775, 80.0794



Achromatopsia

9.0590, 9.5307, 10.3790



Achromatomaly

15.0760, 9.2447, 26.1891

CSS Examples

Text

The CSS property to change the color of the text to XYZ 38.8148, 18.2775, 80.0794 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(200, 0, 235)` looks like.

```
.text, #text, p{  
    color:rgb(200, 0, 235)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(200, 0, 235) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(200, 0, 235) }
```

Border

The CSS property to change the border of an element to XYZ 38.8148, 18.2775, 80.0794 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(200, 0, 235) }
```

If only the border color should be changed use the property border-color.

```
.border{ border-color:rgb(200, 0, 235) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel rgb(200, 0, 235) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(200, 0, 235); -webkit-box-  
shadow:4px 4px 4px 4px rgb(200, 0, 235);  
box-shadow:4px 4px 4px 4px rgb(200, 0,  
235) }
```


Background

The CSS property to change the background color of an element to XYZ 38.8148, 18.2775, 80.0794 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(200, 0, 235) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(200, 0,  
235) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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