

Converting Colors

XYZ(38.3853, 17.9766, 83.6513)

Have a look what the booklet for
XYZ(38.3853, 17.9766, 83.6513)
contains.

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Color

**XYZ(38.4931, 18.0270,
83.8888)**

Conversions

Conversions Part 1

Format	Color
Hex	C400F0
RGB	196, 0, 240
RGB Percent	77%, 0%, 94%
CMY	0.2314, 0.9999, 0.0588
CMYK	0.18, 1.00, 0.00, 0.06
HSL	289°, 100%, 47%
HSV	289°, 100%, 94%
XYZ	38.4931, 18.0270, 83.8888
YIQ	85.9640, 39.7760, 116.1920

Conversions

Conversions Part 2

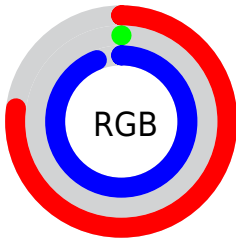
Format	Color
R_{YB}	196, 0, 240
Decimal	12845296
CIE _{Lab}	49.53, 87.48, -70.37
CIE _{LCh}	50, 112.267, 321.186
Yxy	18.0270, 0.2742, 0.1284
Android (android.graphics.Color)	4291035376 (0xFFC400F0)
YUV	85.9640, 75.9397, 96.5016
Hunter-Lab	42.4582, 87.5283, -87.4242

Details

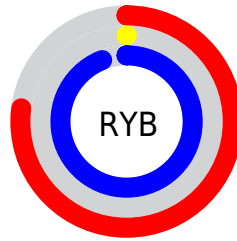
The XYZ color **38.4931, 18.0270, 83.8888** is a light color, and the websafe version is hex **CC00FF**. The color can be described as light saturated magenta. A complement of this color would be **32.1996, 62.8562, 10.4358**, and the grayscale version is **8.6785, 9.1304, 9.9431**.

A 20% lighter version of the original color is **63.2927, 36.4854, 98.3142**, and **18.7006, 8.6531, 45.4843** is the 20% darker color. If you saturate the color by 10%, you get **38.4931, 18.0270, 83.8891**, and if you desaturate by 10%, it is **39.9823, 19.2801, 84.0525**.

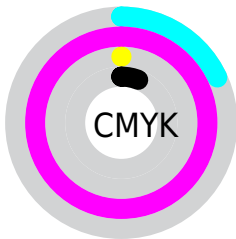
Distribution



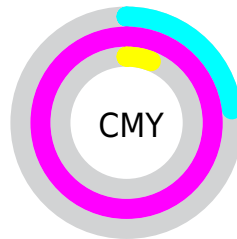
- Red (77%)
- Green (0%)
- Blue (94%)



- Red (77%)
- Yellow (0%)
- Blue (94%)



- Cyan (18%)
- Magenta (100%)
- Yellow (0%)
- Black (6%)





- Cyan (23%)
- Magenta (100%)
- Yellow (6%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 38.4931, 18.0270, 83.8888 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 38.4931, 18.0270, 83.8888 by changing the saturation by 10% instead.

 38.4931, 18.0270,
83.8888


 38.4931, 18.0270,
83.8888


330.9749,
241.0232, 527.9923


 26.5446, 10.9694,
62.3788


 72.1623, 40.0833,
140.6800

 17.3663, 6.0462,
44.9011


 94.6138, 55.8508,
176.7982


 10.5929, 2.8732,
31.0371


 121.2969, 75.2904,
218.6228

 5.8591, 1.0659,
20.3684

 152.5770, 98.7864,
266.5725

 2.7994, 0.0000,
12.4764

 188.8195,
126.7233, 321.0658

 1.0486, 0.0000,
6.9425

 230.3898,

 0.0000, 0.0000,

159.4855, 382.5211

3.3483

277.6531,
197.4573, 451.3571

■ 0.0000, 0.0000,
1.2751

■ 0.0000, 0.0000,
0.0413

■ 38.4931, 18.0270,
83.8888

■ 38.4931, 18.0270,
83.8888

■ 38.4931, 18.0270,
83.8891

■ 39.9823, 19.2801,
84.0525

■ 41.9082, 21.3575,
84.3520

■ 44.3985, 24.5129,
84.8298

■ 47.5283, 28.8963,
85.5109

■ 51.3609, 34.6338,
86.4164

■ 55.9516, 41.8358,
87.5645

■ 61.3502, 50.6012,
88.9719

■ 67.6019, 61.0202,
90.6534

■ 74.7486, 73.1761,
92.6231

Harmonies

Analogous

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



25.6293, 18.0270, 140.3473



38.4931, 18.0270, 83.8888



46.2923, 18.0270, 30.0283

Triad

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



38.4931, 18.0270, 83.8888



20.4592, 18.0270, 0.0000



4.2719, 18.0270, 49.2780

Complementary

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



38.4931, 18.0270, 83.8888



32.1996, 62.8562, 10.4358

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.



3.8362, 18.0270, 11.9585



38.4931, 18.0270, 83.8888



10.7602, 18.0270, 0.0000

Square

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



38.4931, 18.0270, 83.8888



33.3955, 18.0270, 0.0000



5.6359, 18.0270, 1.0531



7.2536, 18.0270, 109.6322

Rectangle

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



38.4931, 18.0270, 83.8888



46.0079, 18.0270, 10.3246



5.6359, 18.0270, 1.0531



3.8906, 18.0270, 33.3086

Sweetspot

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



38.4940, 18.0277, 83.8892



70.3371, 57.9565, 102.0873



16.7859, 8.4063, 83.1762



14.4701, 11.4478, 21.6969



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.



38.4940, 18.0277, 83.8892



44.1326, 20.6661, 96.2706



43.0038, 21.3530, 38.9032



16.1535, 15.8764, 19.9347



21.1764, 9.9222, 45.9269



1.8346, 0.8631, 3.8241

Inverse Universe

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



36.3903, 18.7076, 4.0771



41.7481, 21.4632, 4.6055



32.3304, 62.7885, 16.5482



15.8911, 15.8062, 16.9830



19.9553, 10.2546, 2.4154



1.6928, 0.8662, 0.3733

Previews

White Background



This preview shows how the XYZ color 38.4931, 18.0270, 83.8888 looks on a white background.

Color Contrast Check

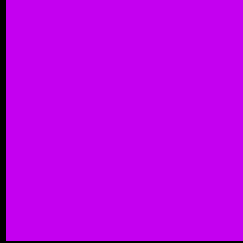
Large Text (above 18pt) WCAG AA ✓ Pass

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 38.4931, 18.0270, 83.8888 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

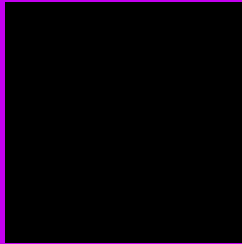
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 38.4931, 18.0270, 83.8888

Background



This preview shows how black text looks on a background with the XYZ color 38.4931, 18.0270, 83.8888.



This preview shows how white text looks on a background with the XYZ color 38.4931, 18.0270,

83.8888.

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

38.4931, 18.0270, 83.8888

Protanopia

22.3084, 18.7325, 87.2340

Deuteranopia

18.9698, 18.7232, 65.5649



Tritanopia

24.4831, 18.2921, 14.5522

Trichromacy



Original Color

38.4931, 18.0270, 83.8888



Protanomaly

21.0081, 12.5155, 85.3129



Deuteranomaly

18.6422, 12.1161, 71.1681



Tritanomaly

27.0505, 15.6891, 31.3083

Monochromacy



Original Color

38.4931, 18.0270, 83.8888



Achromatopsia

8.8453, 9.3059, 10.1341



Achromatomaly

14.8529, 9.1210, 26.5689

CSS Examples

Text

The CSS property to change the color of the text to XYZ 38.4931, 18.0270, 83.8888 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(196, 0, 240)` looks like.

```
.text, #text, p{  
    color:rgb(196, 0, 240)  
}
```

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(196, 0, 240) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(196, 0, 240) }
```

Border

The CSS property to change the border of an element to XYZ 38.4931, 18.0270, 83.8888 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(196, 0, 240) }
```


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

```
.border{ border-color:rgb(196, 0, 240) }
```

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

Here you see how a box with a 4 pixel rgb(196, 0, 240) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(196, 0, 240); -webkit-box-  
shadow:4px 4px 4px 4px rgb(196, 0, 240);  
box-shadow:4px 4px 4px 4px rgb(196, 0,  
240) }
```

Background

The CSS property to change the background color of an element to XYZ 38.4931, 18.0270, 83.8888 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(196, 0, 240) }
```

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

```
.background{ background-color: rgb(196, 0,  
240) }
```

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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