

Converting Colors

XYZ(38.7008, 17.8659, 96.0164)

Have a look what the booklet for
XYZ(38.7008, 17.8659, 96.0164)
contains.

XYZ(38.7890, 17.9114, 96.0206)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(38.7890, 17.9114,
96.0206)**

Conversions

Conversions Part 1

Format	Color
Hex	BC00FF
RGB	188, 0, 255
RGB Percent	74%, 0%, 100%
CMY	0.2627, 0.9999, 0.0000
CMYK	0.26, 1.00, 0.00, 0.00
HSL	284°, 100%, 50%
HSV	284°, 100%, 100%
XYZ	38.7890, 17.9114, 96.0206
YIQ	85.2820, 30.1930, 119.1610

Conversions

Conversions Part 2

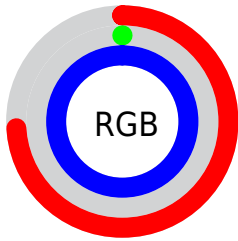
Format	Color
RYB	188, 0, 255
Decimal	12321023
CIELab	49.39, 89.03, -79.05
CIELCh	49, 119.060, 318.396
Yxy	17.9114, 0.2540, 0.1173
Android (android.graphics.Color)	4290511103 (0xFFBC00FF)
YUV	85.2820, 83.6710, 90.0837
Hunter-Lab	42.3219, 89.5363, -104.8929

Details

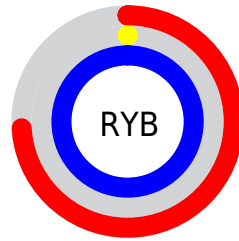
The XYZ color **38.7890, 17.9114, 96.0206** is a dark color, and the websafe version is hex **CC00FF**. The color can be described as middle saturated purple. A complement of this color would be **38.0755, 72.7137, 12.0287**, and the grayscale version is **8.5216, 8.9654, 9.7633**.

A 20% lighter version of the original color is **61.3887, 35.3727, 98.1998**, and **18.8304, 8.5432, 53.4799** is the 20% darker color. If you saturate the color by 10%, you get **38.7889, 17.9113, 96.0206**, and if you desaturate by 10%, it is **40.8377, 19.5000, 96.2192**.

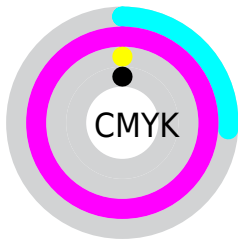
Distribution



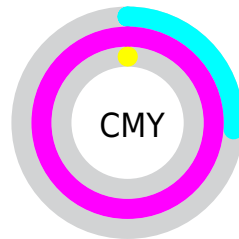
- Red (74%)
- Green (0%)
- Blue (100%)



- Red (74%)
- Yellow (0%)
- Blue (100%)



- Cyan (26%)
- Magenta (100%)
- Yellow (0%)
- Black (0%)





- Cyan (26%)
- Magenta (100%)
- Yellow (0%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 38.7890, 17.9114, 96.0206 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 38.7890, 17.9114, 96.0206 by changing the saturation by 10% instead.


 38.7890, 17.9114,
96.0206


 38.7890, 17.9114,
96.0206


332.2152,
240.3712, 568.4948


 26.7756, 10.8864,
72.3831


 72.6120, 39.8863,
157.6815


 17.5405, 5.9905,
52.9830


 95.1523, 55.6050,
196.5421

 10.7183, 2.8393,
37.4015


 121.9323, 74.9903,
241.3141

 5.9436, 1.0484,
25.2203

 153.3174, 98.4268,
292.4161

 2.8512, 0.0000,
16.0208

 189.6729,
126.2987, 350.2666

 1.0755, 0.0000,
9.3843

 231.3641,

 0.0045, 0.0000,

158.9905, 415.2842

4.8925

278.7564,
196.8865, 487.8874

■ 0.0000, 0.0000,
2.1267

■ 0.0000, 0.0000,
0.6316

■ 38.7890, 17.9114,
96.0206

■ 38.7890, 17.9114,
96.0206

■ 38.7889, 17.9113,
96.0206

■ 40.8377, 19.5000,
96.2192

■ 43.4303, 22.0622,
96.5771

■ 46.7113, 25.8847,
97.1420

■ 50.7692, 31.1426,
97.9430

■ 55.6780, 37.9829,
99.0046

■ 61.5028, 46.5340,
100.3481

■ 68.3017, 56.9111,
101.9928

■ 76.1279, 69.2191,
103.9560

■ 85.0305, 83.5549,
106.2539

Harmonies

Analogous

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



24.7808, 17.9114, 156.5132



38.7890, 17.9114, 96.0206



48.1091, 17.9114, 34.7581

Triad

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



38.7890, 17.9114, 96.0206



21.7431, 17.9114, 0.0000



3.6618, 17.9114, 46.2222

Complementary

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



38.7890, 17.9114, 96.0206



38.0755, 72.7137, 12.0287

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.



3.4294, 17.9114, 9.5271



38.7890, 17.9114, 96.0206



11.0830, 17.9114, 0.0000

Square

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



38.7890, 17.9114, 96.0206



35.7430, 17.9114, 0.0000



5.4511, 17.9114, 0.4264



6.3414, 17.9114, 111.7932

Rectangle

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



38.7890, 17.9114, 96.0206



48.5296, 17.9114, 11.8003



5.4511, 17.9114, 0.4264



3.3578, 17.9114, 29.9869

Sweetspot

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



38.7899, 17.9120, 96.0207



68.2979, 56.9053, 101.9919



20.1179, 11.3555, 95.7392



13.9789, 11.1945, 21.6739



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.



38.7899, 17.9120, 96.0207



38.7889, 17.9113, 96.0206



51.1475, 25.2232, 54.1013



18.2996, 18.0462, 22.7687



20.4159, 9.4353, 50.1797



2.0906, 0.9717, 4.8906

Inverse Universe

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



42.2536, 21.6657, 7.2667



42.2531, 21.6653, 7.2651



36.5629, 71.8412, 16.1470



18.2053, 18.0654, 19.6982



22.1299, 11.3413, 4.0687



2.1974, 1.1213, 0.6207

Previews

White Background



This preview shows how the XYZ color 38.7890, 17.9114, 96.0206 looks on a white background.

Color Contrast Check

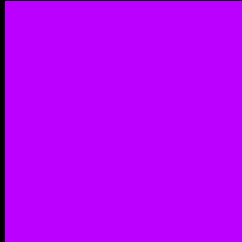
Large Text (above 18pt) WCAG AA ✓ Pass

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 38.7890, 17.9114, 96.0206 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

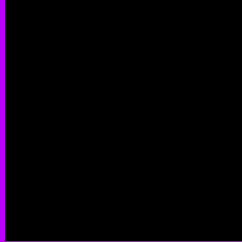
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 38.7890, 17.9114, 96.0206

Background



This preview shows how black text looks on a background with the XYZ color 38.7890, 17.9114, 96.0206.



This preview shows how white text looks on a background with the XYZ color 38.7890, 17.9114,

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

38.7890, 17.9114, 96.0206

Protanopia

22.0079, 18.6123, 85.6517

Deuteranopia

18.5924, 18.5722, 63.5776



Tritanopia

22.5209, 18.0684, 16.2105

Trichromacy



Original Color

38.7890, 17.9114, 96.0206



Protanomaly

21.4010, 12.6479, 88.5021



Deuteranomaly

18.8358, 12.1687, 73.3075



Tritanomaly

25.5000, 15.1242, 35.2935

Monochromacy



Original Color

38.7890, 17.9114, 96.0206



Achromatopsia

8.6345, 9.0842, 9.8927



Achromatomaly

14.6117, 8.8825, 28.5481

CSS Examples

Text

The CSS property to change the color of the text to XYZ 38.7890, 17.9114, 96.0206 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(188, 0, 255)` looks like.

```
.text, #text, p{  
    color:rgb(188, 0, 255)  
}
```

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(188, 0, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(188, 0, 255) }
```

Border

The CSS property to change the border of an element to XYZ 38.7890, 17.9114, 96.0206 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(188, 0, 255) }
```


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

```
.border{ border-color:rgb(188, 0, 255) }
```

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

Here you see how a box with a 4 pixel rgb(188, 0, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(188, 0, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(188, 0, 255);  
box-shadow:4px 4px 4px 4px rgb(188, 0,  
255) }
```

Background

The CSS property to change the background color of an element to XYZ 38.7890, 17.9114, 96.0206 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(188, 0, 255) }
```

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

```
.background{ background-color: rgb(188, 0,  
255) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor