

Converting Colors

XYZ(20.9229, 10.7849, 1.0365)

Have a look what the booklet for
XYZ(20.9229, 10.7849, 1.0365)
contains.

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Color

**XYZ(20.9972, 10.8232,
1.0398)**

Conversions

Conversions Part 1

Format	Color
Hex	BD0002
RGB	189, 0, 2
RGB Percent	74%, 0%, 1%
CMY	0.2588, 0.9999, 0.9922
CMYK	0.00, 1.00, 0.99, 0.26
HSL	359°, 100%, 37%
HSV	359°, 100%, 74%
XYZ	20.9972, 10.8232, 1.0398
YIQ	56.7390, 112.0020, 40.6900

Conversions

Conversions Part 2

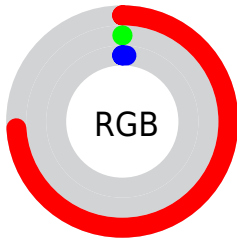
Format	Color
RYB	189, 0, 2
Decimal	12386306
CIELab	39.28, 63.98, 52.88
CIElCh	39, 83.003, 39.575
Yxy	10.8232, 0.6390, 0.3294
Android (android.graphics.Color)	4290576386 (0xFFBD0002)
YUV	56.7390, -26.9863, 115.9929
Hunter-Lab	32.8986, 56.3531, 21.1551

Details

The XYZ color **20.9972, 10.8232, 1.0398** is a dark color, and the websafe version is hex **CC0000**. A complement of this color would be **27.1715, 39.9845, 53.3202**, and the grayscale version is **3.8813, 4.0834, 4.4469**.

A 20% lighter version of the original color is **44.5102, 27.3534, 6.1826**, and **8.4574, 4.3600, 0.3958** is the 20% darker color. If you saturate the color by 10%, you get **20.9968, 10.8230, 1.0388**, and if you desaturate by 10%, it is **21.3505, 11.3354, 1.7578**.

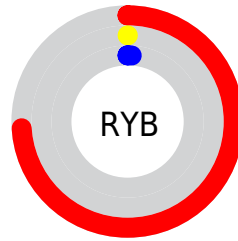
Distribution



Red (74%)

Green (0%)

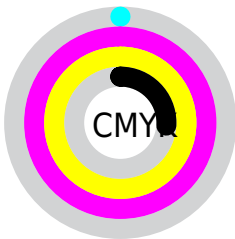
Blue (1%)



Red (74%)

Yellow (0%)

Blue (1%)

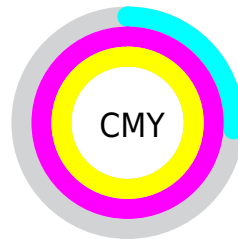


Cyan (0%)

Magenta (100%)

Yellow (99%)

Black (26%)



Cyan (26%)


Magenta (100%)


Yellow (99%)


Brightness & Saturation Gradients

These gradients show how the XYZ color 20.9972, 10.8232, 1.0398 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 20.9972, 10.8232, 1.0398 by changing the saturation by 10% instead.


 20.9972, 10.8232,
1.0398


 20.9972, 10.8232,
1.0398


 249.9956,
196.4505, 105.0171


 13.2344, 5.9481,
0.0000


 44.5742, 27.3328,
6.1930


 7.6683, 2.8135,
0.0000


 61.1191, 39.7360,
11.3610


 3.9334, 1.0352,
0.0000

 81.3221, 55.4174,
18.8147

 1.6645, 0.0000,
0.0000

 105.5485, 74.7613,
28.9726


 0.4339, 0.0000,
0.0000


 134.1637, 98.1522,
42.2532


 0.0000, 0.0000,
0.0000


 167.5330,


125.9745, 59.0751


 206.0219,
158.6124, 79.8569


 20.9972, 10.8232,
1.0398


 20.9972, 10.8232,
1.0398


 20.9968, 10.8230,
1.0388

 21.3505, 11.3354,
1.7578

 22.0470, 12.3437,
3.1755

 23.2027, 14.0256,
5.5020

 24.8785, 16.4709,
8.8547

 27.1258, 19.7556,
13.3337

■ 29.9899, 23.9466,
19.0272

■ 33.5115, 29.1040,
26.0145

■ 37.7279, 35.2829,
34.3683

■ 42.6735, 42.5342,
44.1559

Harmonies

Analogous

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



24.9456, 10.8232, 7.3693



20.9972, 10.8232, 1.0398



14.5132, 10.8232, 0.0000

Triad

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



20.9972, 10.8232, 1.0398



3.1436, 10.8232, 3.9748



12.1810, 10.8232, 75.6755

Complementary

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



20.9972, 10.8232, 1.0398



27.1715, 39.9845, 53.3202

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.



6.9731, 10.8232, 70.5887



20.9972, 10.8232, 1.0398



2.9109, 10.8232, 17.6837

Square

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



20.9972, 10.8232, 1.0398



4.8457, 10.8232, 0.2621



4.0267, 10.8232, 44.2944



18.7684, 10.8232, 55.0088

Rectangle

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



20.9972, 10.8232, 1.0398



10.3670, 10.8232, 0.0000



4.0267, 10.8232, 44.2944



10.2076, 10.8232, 77.1641

Sweetspot

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



20.9974, 10.8239, 1.0399



59.6756, 51.6218, 45.9102



29.3989, 14.0952, 49.3148



12.2349, 10.2250, 8.6866



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438

Same Dimension

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



20.9974, 10.8239, 1.0399



37.6004, 19.3821, 1.8324



24.7590, 18.3642, 2.2408



9.5341, 9.5379, 9.9355



14.1292, 7.2828, 0.7082



0.5548, 0.2858, 0.0351

Inverse Universe

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



20.9974, 10.8239, 1.0399



37.6004, 19.3821, 1.8324



13.5223, 12.3476, 49.8143



9.5341, 9.5379, 9.9355



14.1292, 7.2828, 0.7082



0.5548, 0.2858, 0.0351

Previews

White Background



This preview shows how the XYZ color 20.9972, 10.8232, 1.0398 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



Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 20.9972, 10.8232, 1.0398

Background



This preview shows how black text looks on a background with the XYZ color 20.9972, 10.8232, 1.0398.



This preview shows how white text looks on a background with the XYZ color 20.9972, 10.8232,

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

20.9972, 10.8232, 1.0398

Protanopia

10.4217, 11.5617, 2.6021

Deuteranopia

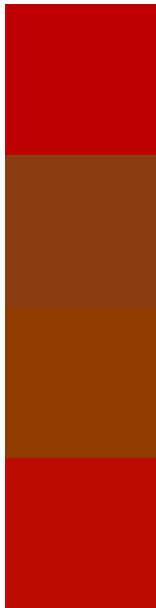
11.4868, 11.4752, 1.6095



Tritanopia

20.9553, 11.1240, 1.0427

Trichromacy



Original Color

20.9972, 10.8232, 1.0398

Protanomaly

12.0864, 8.6963, 1.5718

Deuteranomaly

13.1956, 9.0480, 1.0797

Tritanomaly

20.8642, 10.9329, 1.0393

Monochromacy



Original Color

20.9972, 10.8232, 1.0398

Achromatopsia

3.8890, 4.0915, 4.4557

Achromatomaly

6.7905, 4.3986, 2.2414

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.9972, 10.8232, 1.0398 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(189, 0, 2)` looks like.

```
.text, #text, p{  
    color:rgb(189, 0, 2)  
}
```

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(189, 0, 2) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 0, 2) }
```

Border

The CSS property to change the border of an element to XYZ 20.9972, 10.8232, 1.0398 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(189, 0, 2) }
```


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

```
.border{ border-color:rgb(189, 0, 2) }
```

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

Here you see how a box with a 4 pixel `rgb(189, 0, 2)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 0, 2); -webkit-box-shadow:4px  
4px 4px 4px rgb(189, 0, 2); box-shadow:4px  
4px 4px 4px rgb(189, 0, 2) }
```

Background

The CSS property to change the background color of an element to XYZ 20.9972, 10.8232, 1.0398 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 0, 2) }
```

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

```
.background{ background-color: rgb(189, 0,  
2) }
```

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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