

# Converting Colors

XYZ(19.7822, 10.1963, 1.0052)

Have a look what the booklet for  
XYZ(19.7822, 10.1963, 1.0052)  
contains.

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# Color

**XYZ(19.7836, 10.1969,  
1.0116)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	B80003
RGB	184, 0, 3
RGB Percent	72%, 0%, 1%
CMY	0.2784, 0.9999, 0.9882
CMYK	0.00, 1.00, 0.98, 0.28
HSL	359°, 100%, 36%
HSV	359°, 100%, 72%
XYZ	19.7836, 10.1969, 1.0116
YIQ	55.3580, 108.7010, 39.9410

# Conversions

## Conversions Part 2

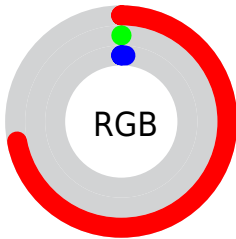
<b>Format</b>	<b>Color</b>
<b>RYB</b>	184, 0, 3
Decimal	12058627
CIELab	38.19, 62.73, 51.39
CIElCh	38, 81.091, 39.328
Yxy	10.1969, 0.6383, 0.3290
Android (android.graphics.Color)	4290248707 (0xFFB80003)
YUV	55.3580, -25.8125, 112.8190
Hunter-Lab	31.9326, 54.7063, 20.4745

# Details

The XYZ color **19.7836, 10.1969, 1.0116** is a dark color, and the websafe version is hex **CC0000**. A complement of this color would be **25.4846, 37.6185, 49.6516**, and the grayscale version is **3.7010, 3.8938, 4.2403**.

A 20% lighter version of the original color is **42.5554, 26.1250, 6.0485**, and **7.7457, 3.9931, 0.3625** is the 20% darker color. If you saturate the color by 10%, you get **19.7833, 10.1968, 1.0107**, and if you desaturate by 10%, it is **20.1267, 10.6916, 1.7174**.

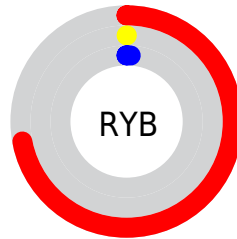
# Distribution



Red (72%)

Green (0%)

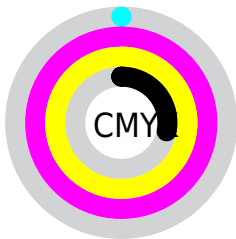
Blue (1%)



Red (72%)

Yellow (0%)

Blue (1%)

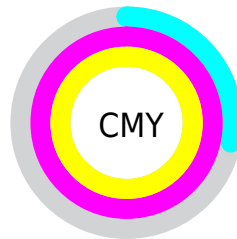


Cyan (0%)

Magenta (100%)

Yellow (98%)

Black (28%)



Cyan (28%)

Magenta (100%)


Yellow (99%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 19.7836, 10.1969, 1.0116 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 19.7836, 10.1969, 1.0116 by changing the saturation by 10% instead.





 19.7836, 10.1969,  
1.0116


 19.7836, 10.1969,  
1.0116


 243.5971,  
192.0717, 104.4011


 12.3452, 5.5297,  
0.0000


 42.5608, 26.1652,  
6.0999


 7.0531, 2.5613,  
0.0000


 58.6303, 38.2351,  
11.2214


 3.5420, 0.9072,  
0.0000

 78.3075, 53.5413,  
18.6192

 1.4464, 0.0000,  
0.0000

 101.9578, 72.4683,  
28.7118

 0.2889, 0.0000,  
0.0000


 129.9466, 95.4005,  
41.9177


 0.0000, 0.0000,  
0.0000


 162.6392,


122.7221, 58.6556


 200.4009,  
154.8177, 79.3438


 19.7836, 10.1969,  
1.0116


 19.7836, 10.1969,  
1.0116


 19.7833, 10.1968,  
1.0107

 20.1267, 10.6916,  
1.7174

 20.7930, 11.6509,  
3.0903

 21.8905, 13.2433,  
5.3139

 23.4755, 15.5526,  
8.4955

 25.5957, 18.6497,  
12.7268

■ 28.2932, 22.5971,  
18.0886

■ 31.6058, 27.4509,  
24.6541

■ 35.5684, 33.2626,  
32.4902

■ 40.2129, 40.0798,  
41.6587

# Harmonies

## Analogous

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



23.4532, 10.1969, 7.0454



19.7836, 10.1969, 1.0116



13.7095, 10.1969, 0.0000

# Triad

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



19.7836, 10.1969, 1.0116



2.9834, 10.1969, 3.7052



11.4217, 10.1969, 71.0287

# Complementary

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



19.7836, 10.1969, 1.0116



25.4846, 37.6185, 49.6516

# 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.



6.5475, 10.1969, 66.0534



19.7836, 10.1969, 1.0116



2.7541, 10.1969, 16.4783

# Square

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



19.7836, 10.1969, 1.0116



4.5991, 10.1969, 0.2185



3.7932, 10.1969, 41.3466



17.5993, 10.1969, 51.8328



# Rectangle

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



19.7836, 10.1969, 1.0116



9.8107, 10.1969, 0.0000



3.7932, 10.1969, 41.3466



9.5740, 10.1969, 72.3473

# Sweetspot

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



19.7838, 10.1976, 1.0117



56.9540, 49.2633, 44.0183



27.6924, 13.2771, 46.4503



11.7119, 9.7903, 8.3678



88.6918, 93.3107, 101.6153



17.8044, 18.7317, 20.3988



# Same Dimension

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



19.7838, 10.1976, 1.0117



35.8546, 18.4813, 1.7885



23.3354, 17.3268, 2.1154



9.0103, 9.0145, 9.4018



13.6371, 7.0286, 0.7099



0.4827, 0.2486, 0.0355



# Inverse Universe

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



19.7838, 10.1976, 1.0117



35.8546, 18.4813, 1.7885



12.7517, 11.6601, 46.9256



9.0103, 9.0145, 9.4018



13.6371, 7.0286, 0.7099



0.4827, 0.2486, 0.0355



# Previews

## White Background



This preview shows how the XYZ color 19.7836, 10.1969, 1.0116 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 19.7836, 10.1969, 1.0116**

## **Background**



This preview shows how black text looks on a background with the XYZ color 19.7836, 10.1969, 1.0116.



This preview shows how white text looks on a background with the XYZ color 19.7836, 10.1969,



# 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

19.7836, 10.1969, 1.0116

### Protanopia

9.7881, 10.8377, 2.4401

### Tritanopia

19.7289, 10.4682, 0.9807

# Trichromacy



## Original Color

19.7836, 10.1969, 1.0116

## Protanomaly

11.3304, 8.1519, 1.4665

## Tritanomaly

19.6536, 10.3088, 0.9827

# Monochromacy



## Original Color

19.7836, 10.1969, 1.0116

## Achromatopsia

3.6313, 3.8204, 4.1605

## Achromatomaly

6.3990, 4.1542, 2.1336

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 19.7836, 10.1969, 1.0116 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(184, 0, 3)` looks like.

```
.text, #text, p{  
    color:rgb(184, 0, 3)  
}
```

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(184, 0, 3) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(184, 0, 3) }
```

## Border

The CSS property to change the border of an element to XYZ 19.7836, 10.1969, 1.0116 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(184, 0, 3) }
```

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

```
.border{ border-color:rgb(184, 0, 3) }
```

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

Here you see how a box with a 4 pixel `rgb(184, 0, 3)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(184, 0, 3); -webkit-box-shadow:4px  
4px 4px 4px rgb(184, 0, 3); box-shadow:4px  
4px 4px 4px rgb(184, 0, 3) }
```



# Background

The CSS property to change the background color of an element to XYZ 19.7836, 10.1969, 1.0116 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(184, 0, 3) }
```

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

```
.background{ background-color: rgb(184, 0,  
3) }
```

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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