

# Converting Colors

XYZ(21.6777, 11.1604, 1.6876)

Have a look what the booklet for  
XYZ(21.6777, 11.1604, 1.6876)  
contains.

<b>XYZ(21.6121, 11.1269, 1.6704)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(21.6121, 11.1269,  
1.6704)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BF0014
RGB	191, 0, 20
RGB Percent	75%, 0%, 8%
CMY	0.2510, 0.9998, 0.9216
CMYK	0.00, 1.00, 0.90, 0.25
HSL	354°, 100%, 37%
HSV	354°, 100%, 75%
XYZ	21.6121, 11.1269, 1.6704
YIQ	59.3890, 107.4160, 46.7120

# Conversions

## Conversions Part 2

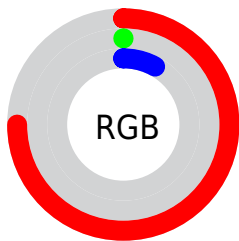
<b>Format</b>	<b>Color</b>
<b>RYB</b>	191, 0, 20
Decimal	12517396
CIELab	39.79, 64.69, 46.50
CIELCh	40, 79.669, 35.709
Yxy	11.1269, 0.6281, 0.3234
Android (android.graphics.Color)	4290707476 (0xFFBF0014)
YUV	59.3890, -19.4188, 115.4228
Hunter-Lab	33.3570, 57.2759, 20.3809

# Details

The XYZ color **21.6121, 11.1269, 1.6704** is a dark color, and the websafe version is hex **CC0000**. A complement of this color would be **25.9855, 40.2033, 44.9380**, and the grayscale version is **4.2288, 4.4490, 4.8450**.

A 20% lighter version of the original color is **45.2407, 27.6879, 8.1141**, and **8.7524, 4.5120, 0.4096** is the 20% darker color. If you saturate the color by 10%, you get **21.6116, 11.1266, 1.6687**, and if you desaturate by 10%, it is **22.0564, 11.6810, 2.8509**.

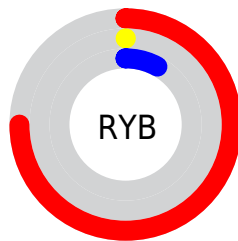
# Distribution



Red (75%)

Green (0%)

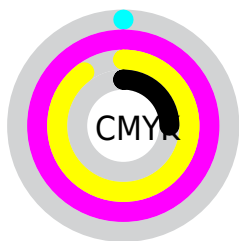
Blue (8%)



Red (75%)

Yellow (0%)

Blue (8%)

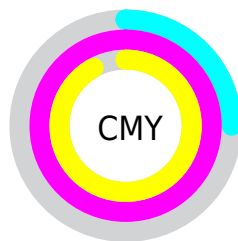


Cyan (0%)

Magenta (100%)

Yellow (90%)

Black (25%)



Cyan (25%)

Magenta (100%)

Yellow (92%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 21.6121, 11.1269, 1.6704 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 21.6121, 11.1269, 1.6704 by changing the saturation by 10% instead.



■ 21.6121, 11.1269,  
1.6704

■ 21.6121, 11.1269,  
1.6704

253.1844,  
198.5361, 117.0285

■ 13.6872, 6.1523,  
0.3403

■ 45.5877, 27.8946,  
8.1184

■ 7.9836, 2.9379,  
0.0000

■ 62.3690, 40.4564,  
14.1983

■ 4.1362, 1.0994,  
0.0000

■ 82.8332, 56.3161,  
22.7402

■ 1.7795, 0.0000,  
0.0000

■ 107.3456, 75.8580,  
34.1626

■ 0.5053, 0.0000,  
0.0000


■ 136.2716, 99.4666,  
48.8841


■ 0.0000, 0.0000,  
0.0000


■ 169.9765,


127.5262, 67.3233


 208.8257,  
160.4212, 89.8985


 21.6121, 11.1269,  
1.6704


 21.6121, 11.1269,  
1.6704


 21.6116, 11.1266,  
1.6687

 22.0564, 11.6810,  
2.8509

 22.8571, 12.7461,  
4.7711

 24.1129, 14.4951,  
7.5405

 25.8791, 17.0173,  
11.2433

 28.2030, 20.3887,  
15.9533

■ 31.1267, 24.6761,  
21.7370

■ 34.6880, 29.9397,  
28.6550

■ 38.9216, 36.2344,  
36.7637

■ 43.8597, 43.6113,  
46.1153

# Harmonies

## Analogous

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



24.8607, 11.1269, 9.3610



21.6121, 11.1269, 1.6704



15.5157, 11.1269, 0.0000

# Triad

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



21.6121, 11.1269, 1.6704



3.5972, 11.1269, 3.4719



11.6561, 11.1269, 73.5322

# Complementary

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



21.6121, 11.1269, 1.6704



25.9855, 40.2033, 44.9380

# 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.



6.8144, 11.1269, 65.4750



21.6121, 11.1269, 1.6704



3.1860, 11.1269, 15.3629

# Square

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



21.6121, 11.1269, 1.6704



5.5508, 11.1269, 0.2739



4.1311, 11.1269, 39.5459



17.9731, 11.1269, 56.6802



# Rectangle

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



21.6121, 11.1269, 1.6704



11.3820, 11.1269, 0.0000



4.1311, 11.1269, 39.5459



9.8086, 11.1269, 73.7483

# Sweetspot

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



21.6123, 11.1276, 1.6705



61.7831, 53.1128, 50.6585



25.7066, 12.1665, 50.2832



12.9431, 10.7395, 9.9165



92.9021, 97.7402, 106.4391



19.4759, 20.4902, 22.3138



# Same Dimension

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



21.6123, 11.1276, 1.6705



38.6662, 19.9118, 2.7742



23.8842, 15.8731, 1.8061



9.5696, 9.5521, 10.1226



14.2177, 7.3182, 1.1743



0.5706, 0.2921, 0.1182



# Inverse Universe

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



21.6123, 11.1276, 1.6705



38.6662, 19.9118, 2.7742



15.8590, 16.6711, 51.6717



9.5696, 9.5521, 10.1226



14.2177, 7.3182, 1.1743



0.5706, 0.2921, 0.1182



# Previews

## White Background



This preview shows how the XYZ color 21.6121, 11.1269, 1.6704 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 21.6121, 11.1269, 1.6704**

## **Background**



This preview shows how black text looks on a background with the XYZ color 21.6121, 11.1269, 1.6704.



This preview shows how white text looks on a background with the XYZ color 21.6121, 11.1269,



# 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

21.6121, 11.1269, 1.6704

### Protanopia

10.7930, 11.8711, 3.4728

### Deuteranopia

11.8532, 11.7919, 1.6513



## Tritanopia

21.4357, 11.3480, 1.0606

# Trichromacy



## Original Color

21.6121, 11.1269, 1.6704

## Protanomaly

12.4512, 8.9475, 2.3671

## Deuteranomaly

13.6349, 9.3463, 1.2864

## Tritanomaly

21.3932, 11.2018, 1.2356

# Monochromacy



## Original Color

21.6121, 11.1269, 1.6704

## Achromatopsia

4.1570, 4.3735, 4.7627

## Achromatomaly

7.2302, 4.7015, 3.0090

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 21.6121, 11.1269, 1.6704 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(191, 0, 20)` looks like.

```
.text, #text, p{  
    color:rgb(191, 0, 20)  
}
```

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(191, 0, 20) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(191, 0, 20) }
```

## Border

The CSS property to change the border of an element to XYZ 21.6121, 11.1269, 1.6704 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(191, 0, 20) }
```



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

```
.border{ border-color:rgb(191, 0, 20) }
```

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

Here you see how a box with a 4 pixel `rgb(191, 0, 20)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(191, 0, 20); -webkit-box-  
shadow:4px 4px 4px 4px rgb(191, 0, 20);  
box-shadow:4px 4px 4px 4px rgb(191, 0, 20)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 21.6121, 11.1269, 1.6704 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(191, 0, 20) }
```

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

```
.background{ background-color: rgb(191, 0,  
20) }
```

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**