

# Converting Colors

XYZ(21.3076, 11.2652, 1.4972)

Have a look what the booklet for  
XYZ(21.3076, 11.2652, 1.4972)  
contains.

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# Color

**XYZ(21.2729, 11.2542,  
1.5030)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BD110F
RGB	189, 17, 15
RGB Percent	74%, 7%, 6%
CMY	0.2588, 0.9332, 0.9412
CMYK	0.00, 0.91, 0.92, 0.26
HSL	1°, 85%, 40%
HSV	1°, 92%, 74%
XYZ	21.2729, 11.2542, 1.5030
YIQ	68.2000, 103.1540, 35.8420

# Conversions

## Conversions Part 2

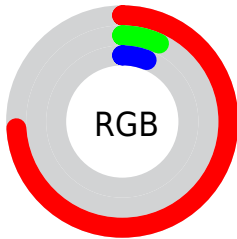
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	189, 17, 15
Decimal	12390671
CIE Lab	40.01, 62.17, 48.58
CIE LCh	40, 78.904, 38.006
Yxy	11.2542, 0.6251, 0.3307
Android (android.graphics.Color)	4290580751 (0xFFBD110F)
YUV	68.2000, -26.2276, 105.9416
Hunter-Lab	33.5473, 54.4821, 20.8268

# Details

The XYZ color **21.2729, 11.2542, 1.5030** is a dark color, and the websafe version is hex **CC0000**. A complement of this color would be **27.1468, 39.3049, 54.2994**, and the grayscale version is **5.5582, 5.8477, 6.3681**.

A 20% lighter version of the original color is **45.1507, 28.2350, 7.6276**, and **8.6042, 4.4356, 0.4027** is the 20% darker color. If you saturate the color by 10%, you get **21.0099, 10.8665, 0.9901**, and if you desaturate by 10%, it is **21.8954, 12.1777, 2.7024**.

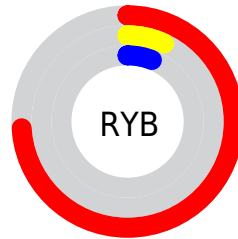
# Distribution



Red (74%)

Green (7%)

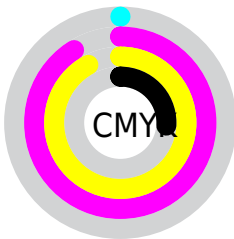
Blue (6%)



Red (74%)

Yellow (7%)

Blue (6%)

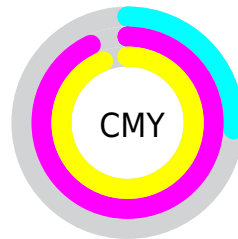


Cyan (0%)

Magenta (91%)

Yellow (92%)

Black (26%)



Cyan (26%)

Magenta (93%)


Yellow (94%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 21.2729, 11.2542, 1.5030 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 21.2729, 11.2542, 1.5030 by changing the saturation by 10% instead.





 21.2729, 11.2542,  
1.5030


 21.2729, 11.2542,  
1.5030


 251.4296,  
199.4033, 114.1075


 13.4372, 6.2381,  
0.2202


 45.0291, 28.1293,  
7.6312


 7.8094, 2.9904,  
0.0000


 61.6804, 40.7570,  
13.4886


 4.0240, 1.1267,  
0.0000

 82.0009, 56.6908,  
21.7662

 1.7157, 0.0006,  
0.0000

 106.3560, 76.3149,  
32.8827

 0.4661, 0.0000,  
0.0000


 135.1111,  
100.0138, 47.2565


 0.0000, 0.0000,  
0.0000


 168.6315,


128.1720, 65.3063


 207.2826,  
161.1736, 87.4504


 21.2729, 11.2542,  
1.5030


 21.2729, 11.2542,  
1.5030


 21.0099, 10.8665,  
0.9901

 21.8954, 12.1777,  
2.7024

 22.9613, 13.7483,  
4.7876

 24.5329, 16.0565,  
7.8859

 26.6623, 19.1775,  
12.1037

 29.3953, 23.1776,  
17.5340

■ 32.7729, 28.1161,  
24.2600

■ 36.8324, 34.0473,  
32.3578

■ 41.6083, 41.0211,  
41.8974

■ 47.1329, 49.0844,  
52.9442

# Harmonies

## Analogous

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



24.8082, 11.2542, 8.5284



21.2729, 11.2542, 1.5030



15.1256, 11.2542, 0.0000

# Triad

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



21.2729, 11.2542, 1.5030



3.6209, 11.2542, 4.0953



12.2251, 11.2542, 72.5639

# Complementary

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



21.2729, 11.2542, 1.5030



27.1468, 39.3049, 54.2994

# 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.



7.2297, 11.2542, 66.5409



21.2729, 11.2542, 1.5030



3.3092, 11.2542, 16.9317

# Square

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



21.2729, 11.2542, 1.5030



5.4509, 11.2542, 0.4756



4.3778, 11.2542, 41.6178



18.5423, 11.2542, 54.4348



# Rectangle

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



21.2729, 11.2542, 1.5030



11.0660, 11.2542, 0.0000



4.3778, 11.2542, 41.6178



10.3359, 11.2542, 73.4663

# Sweetspot

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



21.2731, 11.2549, 1.5032



61.1811, 53.9869, 48.4031



30.3421, 14.8345, 49.4077



12.5223, 10.6825, 9.1441



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.



21.2731, 11.2549, 1.5032



37.6174, 19.4384, 1.7693



25.8236, 20.3559, 3.0200



9.5388, 9.5537, 9.9179



14.1402, 7.3192, 0.6675



0.5570, 0.2929, 0.0272



# Inverse Universe

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



27.1468, 39.3049, 54.2994



48.1880, 70.0546, 97.2083



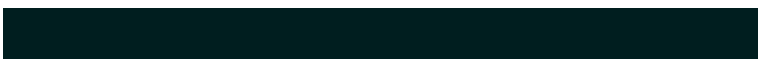
14.1336, 13.2784, 49.9617



9.7988, 10.7900, 12.2384



18.1122, 26.3361, 36.5217



0.7125, 1.0378, 1.4316



# Previews

## White Background



This preview shows how the XYZ color 21.2729, 11.2542, 1.5030 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 21.2729, 11.2542, 1.5030**

## **Background**



This preview shows how black text looks on a background with the XYZ color 21.2729, 11.2542, 1.5030.



This preview shows how white text looks on a background with the XYZ color 21.2729, 11.2542,



# 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

21.2729, 11.2542, 1.5030

### Protanopia

10.6145, 11.6528, 2.9861

### Deuteranopia

11.6262, 11.5471, 1.6160



## Tritanopia

21.2464, 11.2690, 1.2850

# Trichromacy



## Original Color

21.2729, 11.2542, 1.5030

## Protanomaly

12.4992, 9.4029, 2.0759

## Deuteranomaly

13.7148, 9.7887, 1.3101

## Tritanomaly

21.2630, 11.2756, 1.3723

# Monochromacy



## Original Color

21.2729, 11.2542, 1.5030

## Achromatopsia

5.4944, 5.7805, 6.2950

## Achromatomaly

8.3348, 5.8631, 3.5981

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 21.2729, 11.2542, 1.5030 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, 17, 15)` looks like.

```
.text, #text, p{  
    color:rgb(189, 17, 15)  
}
```

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, 17, 15) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 17, 15) }
```

## Border

The CSS property to change the border of an element to XYZ 21.2729, 11.2542, 1.5030 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, 17, 15) }
```



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

```
.border{ border-color:rgb(189, 17, 15) }
```

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

Here you see how a box with a 4 pixel `rgb(189, 17, 15)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 17, 15); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 17, 15);  
box-shadow:4px 4px 4px 4px rgb(189, 17,  
15) }
```

# Background

The CSS property to change the background color of an element to XYZ 21.2729, 11.2542, 1.5030 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 17, 15) }
```

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

```
.background{ background-color: rgb(189, 17,  
15) }
```

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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