

# Converting Colors

XYZ(21.3515, 12.7139, 0.0000)

Have a look what the booklet for  
XYZ(21.3515, 12.7139, 0.0000)  
contains.

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# Color

**XYZ(21.6341, 12.8460,  
1.3393)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	BB3200
RGB	187, 50, 0
RGB Percent	73%, 20%, 0%
CMY	0.2667, 0.8039, 1.0000
CMYK	0.00, 0.73, 1.00, 0.27
HSL	16°, 100%, 37%
HSV	16°, 100%, 73%
XYZ	21.6341, 12.8460, 1.3393
YIQ	85.2630, 97.7020, 13.4940

# Conversions

## Conversions Part 2

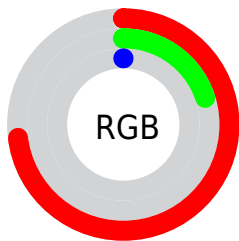
Format	Color
<a href="#">RYB</a>	187, 68, 0
Decimal	12268032
CIELab	42.53, 53.00, 54.75
CIELCh	43, 76.197, 45.930
Yxy	12.8460, 0.6040, 0.3586
Android (android.graphics.Color)	4290458112 (0xFFBB3200)
YUV	85.2630, -42.0347, 89.2233
Hunter-Lab	35.8413, 45.0217, 22.8734

# Details

The XYZ color **21.6341, 12.8460, 1.3393** is a dark color, and the websafe version is hex **CC3300**. A complement of this color would be **17.9140, 21.4767, 50.2145**, and the grayscale version is **8.7619, 9.2182, 10.0386**.

A 20% lighter version of the original color is **45.6273, 31.0931, 7.2112**, and **8.3122, 4.2851, 0.3890** is the 20% darker color. If you saturate the color by 10%, you get **21.6343, 12.8466, 1.3394**, and if you desaturate by 10%, it is **22.4254, 14.2448, 2.1704**.

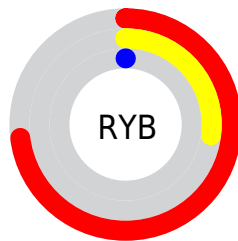
# Distribution



Red (73%)

Green (20%)

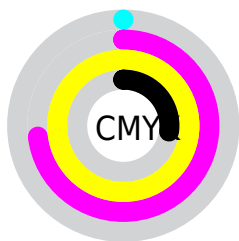
Blue (0%)



Red (73%)

Yellow (27%)

Blue (0%)

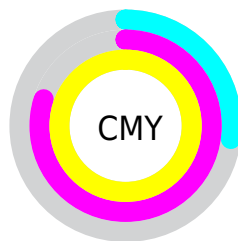


Cyan (0%)

Magenta (73%)

Yellow (100%)

Black (27%)



Cyan (27%)

Magenta (80%)


Yellow (100%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 21.6341, 12.8460, 1.3393 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 21.6341, 12.8460, 1.3393 by changing the saturation by 10% instead.





 21.6341, 12.8460,  
1.3393

 21.6341, 12.8460,  
1.3393


 253.2979,  
209.9283, 111.0860


 13.7034, 7.3226,  
0.0937


 45.6239, 31.0268,  
7.1398


 7.9950, 3.6647,  
0.0000


 62.4136, 44.4531,  
12.7675

 4.1435, 1.4878,  
0.0000

 82.8871, 61.2823,  
20.7716

 1.7836, 0.2801,  
0.0000

 107.4097, 81.8990,  
31.5705

 0.5078, 0.0000,  
0.0000


 136.3467,  
106.6876, 45.5829


 0.0000, 0.0000,  
0.0000


 170.0635,


136.0324, 63.2272


 208.9254,  
170.3179, 84.9221


 21.6341, 12.8460,  
1.3393


 21.6341, 12.8460,  
1.3393


 21.6343, 12.8466,  
1.3394

 22.4254, 14.2448,  
2.1704

 23.5161, 16.0659,  
3.6452

 24.9599, 18.3518,  
5.9812

 26.7884, 21.1338,  
9.2885

 29.0296, 24.4402,  
13.6603

■ 31.7083, 28.2972,  
19.1790

■ 34.8475, 32.7288,  
25.9185

■ 38.4684, 37.7580,  
33.9469

■ 42.5909, 43.4062,  
43.3268

# Harmonies

## Analogous

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



26.2366, 12.8460, 6.9688



21.6341, 12.8460, 1.3393



15.1016, 12.8460, 0.0000

# Triad

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



21.6341, 12.8460, 1.3393



4.3155, 12.8460, 7.6120



15.5048, 12.8460, 71.9290

# Complementary

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



21.6341, 12.8460, 1.3393



17.9140, 21.4767, 50.2145

# 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.



9.7129, 12.8460, 72.7250



21.6341, 12.8460, 1.3393



4.3621, 12.8460, 24.6097

# Square

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



21.6341, 12.8460, 1.3393



5.8612, 12.8460, 1.4973



6.0183, 12.8460, 51.3346



22.0081, 12.8460, 49.6237



# Rectangle

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



21.6341, 12.8460, 1.3393



11.1021, 12.8460, 0.0000



6.0183, 12.8460, 51.3346



13.3887, 12.8460, 75.0942

# Sweetspot

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



21.6344, 12.8468, 1.3395



62.1192, 58.2073, 45.7809



25.0183, 12.3747, 24.7871



13.1363, 12.0543, 8.9054



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.



21.6344, 12.8468, 1.3395



38.5817, 22.6773, 2.3437



30.3709, 30.3199, 4.2517



9.7322, 9.9403, 9.9824



14.9582, 8.9551, 0.9401



0.6419, 0.4628, 0.0555



# Inverse Universe

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



17.9140, 21.4767, 50.2145



31.8790, 38.0546, 89.8665



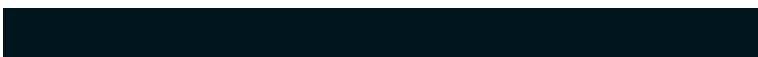
9.8567, 5.3621, 47.5287



9.5869, 10.3661, 12.1678



12.4048, 14.9214, 34.6192



0.5370, 0.6867, 1.3731



# Previews

## White Background



This preview shows how the XYZ color 21.6341, 12.8460, 1.3393 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 21.6341, 12.8460, 1.3393**

## **Background**



This preview shows how black text looks on a background with the XYZ color 21.6341, 12.8460, 1.3393.



This preview shows how white text looks on a background with the XYZ color 21.6341, 12.8460,



# 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

21.6341, 12.8460, 1.3393

### Protanopia

11.8262, 13.1343, 2.6213

### Deuteranopia

13.0850, 12.9549, 1.8109



## Tritanopia

22.2891, 12.9378, 4.1188

# Trichromacy



## Original Color

21.6341, 12.8460, 1.3393

## Protanomaly

14.1504, 11.8783, 1.9277

## Deuteranomaly

15.1904, 11.9815, 1.5120

## Tritanomaly

22.0433, 12.9042, 2.6253

# Monochromacy



## Original Color

21.6341, 12.8460, 1.3393

## Achromatopsia

8.6345, 9.0842, 9.8927

## Achromatomaly

11.0093, 9.0386, 4.6544

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 21.6341, 12.8460, 1.3393 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(187, 50, 0)` looks like.

```
.text, #text, p{  
    color:rgb(187, 50, 0)  
}
```

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(187, 50, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(187, 50, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 21.6341, 12.8460, 1.3393 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(187, 50, 0) }
```



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

```
.border{ border-color:rgb(187, 50, 0) }
```

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

Here you see how a box with a 4 pixel rgb(187, 50, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(187, 50, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(187, 50, 0);  
box-shadow:4px 4px 4px 4px rgb(187, 50, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 21.6341, 12.8460, 1.3393 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(187, 50, 0) }
```

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

```
.background{ background-color: rgb(187, 50,  
0) }
```

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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