

# Converting Colors

XYZ(21.1341, 12.1538, 1.2320)

Have a look what the booklet for  
XYZ(21.1341, 12.1538, 1.2320)  
contains.

<b>XYZ(21.1136, 12.1669, 1.2356)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(21.1136, 12.1669,  
1.2356)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	BA2B00
RGB	186, 43, 0
RGB Percent	73%, 17%, 0%
CMY	0.2706, 0.8313, 1.0000
CMYK	0.00, 0.77, 1.00, 0.27
HSL	14°, 100%, 36%
HSV	14°, 100%, 73%
XYZ	21.1136, 12.1669, 1.2356
YIQ	80.8550, 99.0310, 16.9430

# Conversions

## Conversions Part 2

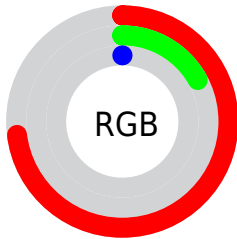
Format	Color
<a href="#">RYB</a>	186, 56, 0
Decimal	12200704
CIELab	41.48, 55.06, 54.16
CIElCh	41, 77.230, 44.530
Yxy	12.1669, 0.6117, 0.3525
Android (android.graphics.Color)	4290390784 (0xFFBA2B00)
YUV	80.8550, -39.8615, 92.2122
Hunter-Lab	34.8811, 47.0046, 22.3165

# Details

The XYZ color **21.1136, 12.1669, 1.2356** is a dark color, and the websafe version is hex **CC3300**. A complement of this color would be **18.6835, 23.1864, 49.9447**, and the grayscale version is **7.8560, 8.2651, 9.0007**.

A 20% lighter version of the original color is **44.6241, 29.6954, 6.7480**, and **8.1684, 4.2110, 0.3823** is the 20% darker color. If you saturate the color by 10%, you get **21.1138, 12.1676, 1.2358**, and if you desaturate by 10%, it is **21.8422, 13.4418, 2.0417**.

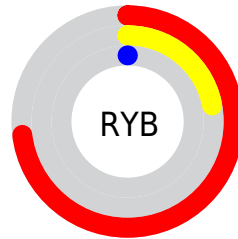
# Distribution



Red (73%)

Green (17%)

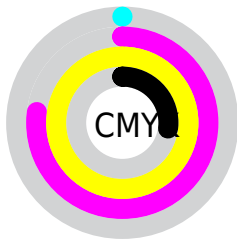
Blue (0%)



Red (73%)

Yellow (22%)

Blue (0%)

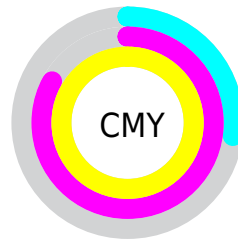


Cyan (0%)

Magenta (77%)

Yellow (100%)

Black (27%)



Cyan (27%)

Magenta (83%)


Yellow (100%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 21.1136, 12.1669, 1.2356 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 21.1136, 12.1669, 1.2356 by changing the saturation by 10% instead.





 21.1136, 12.1669,  
1.2356


 21.1136, 12.1669,  
1.2356


 250.6019,  
205.5071, 109.0728


 13.3200, 6.8574,  
0.0081


 44.7664, 29.7987,  
6.8197


 7.7278, 3.3731,  
0.0000

 61.3563, 42.8899,  
12.2947

 3.9716, 1.3295,  
0.0000

 81.6089, 59.3437,  
20.1163

 1.6861, 0.1639,  
0.0000

 105.8898, 79.5446,  
30.7030

 0.4475, 0.0000,  
0.0000


 134.5642,  
103.8771, 44.4735


 0.0000, 0.0000,  
0.0000


 167.9974,


132.7253, 61.8463


 206.5549,  
166.4739, 83.2399


 21.1136, 12.1669,  
1.2356


 21.1136, 12.1669,  
1.2356

 21.1138, 12.1676,  
1.2358

 21.8422, 13.4418,  
2.0417

 22.8788, 15.1583,  
3.4868

 24.2789, 17.3635,  
5.7877

 26.0762, 20.0930,  
9.0534

 28.2999, 23.3784,  
13.3768

■ 30.9765, 27.2490,  
18.8397

■ 34.1302, 31.7321,  
25.5155

■ 37.7835, 36.8528,  
33.4719

■ 41.9573, 42.6351,  
42.7713

# Harmonies

## Analogous

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



25.5091, 12.1669, 6.8976



21.1136, 12.1669, 1.2356



14.6953, 12.1669, 0.0000

# Triad

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



21.1136, 12.1669, 1.2356



3.9594, 12.1669, 6.5848



14.4951, 12.1669, 71.5314

# Complementary

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



21.1136, 12.1669, 1.2356



18.6835, 23.1864, 49.9447

# 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.



8.9129, 12.1669, 71.1273



21.1136, 12.1669, 1.2356



3.9370, 12.1669, 22.6361

# Square

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



21.1136, 12.1669, 1.2356



5.5175, 12.1669, 1.1632



5.4412, 12.1669, 48.9991



20.9267, 12.1669, 49.8636



# Rectangle

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



21.1136, 12.1669, 1.2356



10.7310, 12.1669, 0.0000



5.4412, 12.1669, 48.9991



12.4396, 12.1669, 74.3178

# Sweetspot

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



21.1139, 12.1676, 1.2358



61.5586, 57.0862, 45.5940



25.4145, 12.5050, 28.1460



13.0031, 11.7878, 8.8610



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.



21.1139, 12.1676, 1.2358



38.1189, 21.7518, 2.1894



28.6782, 27.2962, 3.7572



9.1687, 9.3403, 9.4265



14.2534, 8.2831, 0.8476



0.5507, 0.3884, 0.0459



# Inverse Universe

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



18.6835, 23.1864, 49.9447



33.6721, 41.6408, 90.4642



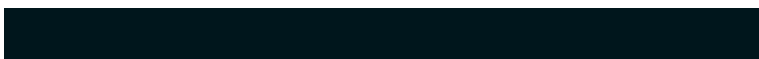
10.1223, 6.0641, 47.0910



9.0859, 9.8490, 11.5016



12.6287, 15.7171, 33.6212



0.4888, 0.6414, 1.1998



# Previews

## White Background



This preview shows how the XYZ color 21.1136, 12.1669, 1.2356 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

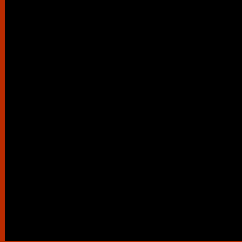
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**XYZ 21.1136, 12.1669, 1.2356**

## **Background**



This preview shows how black text looks on a background with the XYZ color 21.1136, 12.1669, 1.2356.



This preview shows how white text looks on a background with the XYZ color 21.1136, 12.1669,



# 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

21.1136, 12.1669, 1.2356

### Protanopia

11.1622, 12.3611, 2.5567

### Deuteranopia

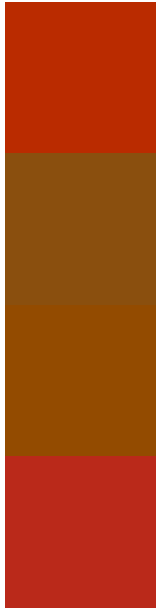
12.4602, 12.3654, 1.7300



## Tritanopia

21.4087, 12.1168, 3.3082

# Trichromacy



## Original Color

21.1136, 12.1669, 1.2356

## Protanomaly

13.3565, 11.0269, 1.8399

## Deuteranomaly

14.5487, 11.2352, 1.4018

## Tritanomaly

21.2291, 12.0996, 2.1938

# Monochromacy



## Original Color

21.1136, 12.1669, 1.2356

## Achromatopsia

7.8210, 8.2283, 8.9606

## Achromatomaly

10.2347, 8.1842, 4.2891

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 21.1136, 12.1669, 1.2356 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(186, 43, 0)` looks like.

```
.text, #text, p{  
    color:rgb(186, 43, 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(186, 43, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(186, 43, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 21.1136, 12.1669, 1.2356 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(186, 43, 0) }
```



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

```
.border{ border-color:rgb(186, 43, 0) }
```

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

Here you see how a box with a 4 pixel rgb(186, 43, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(186, 43, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(186, 43, 0);  
box-shadow:4px 4px 4px 4px rgb(186, 43, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 21.1136, 12.1669, 1.2356 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(186, 43, 0) }
```

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

```
.background{ background-color: rgb(186, 43,  
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](#).

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