

# Converting Colors

XYZ(20.1273, 15.0356, 1.3121)

Have a look what the booklet for  
XYZ(20.1273, 15.0356, 1.3121)  
contains.

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# Color

**XYZ(20.1065, 14.9572,  
1.8273)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	AC5300
RGB	172, 83, 0
RGB Percent	67%, 33%, 0%
CMY	0.3255, 0.6745, 1.0000
CMYK	0.00, 0.52, 1.00, 0.33
HSL	29°, 100%, 34%
HSV	29°, 100%, 67%
XYZ	20.1065, 14.9572, 1.8273
YIQ	100.1490, 79.6870, -6.9450

# Conversions

## Conversions Part 2

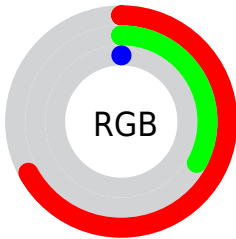
Format	Color
<a href="#">RYB</a>	172, 160, 0
Decimal	11293440
CIELab	45.58, 32.51, 54.96
CIElCh	46, 63.855, 59.394
Yxy	14.9572, 0.5450, 0.4054
Android (android.graphics.Color)	4289483520 (0xFFAC5300)
YUV	100.1490, -49.3735, 63.0133
Hunter-Lab	38.6745, 25.1199, 24.2708

# Details

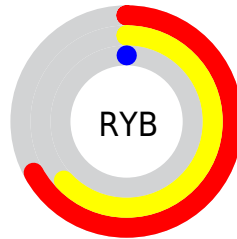
The XYZ color **20.1065, 14.9572, 1.8273** is a dark color, and the websafe version is hex **CC6600**. A complement of this color would be **11.0185, 10.1228, 40.4025**, and the grayscale version is **12.2598, 12.8982, 14.0462**.

A 20% lighter version of the original color is **43.2462, 34.8584, 8.5867**, and **7.2831, 4.6468, 0.5131** is the 20% darker color. If you saturate the color by 10%, you get **20.1066, 14.9577, 1.8274**, and if you desaturate by 10%, it is **20.9348, 16.4496, 2.6104**.

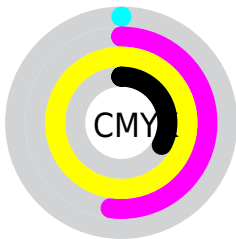
# Distribution



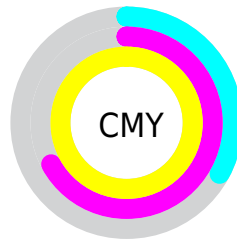
- Red (67%)
- Green (33%)
- Blue (0%)



- Red (67%)
- Yellow (63%)
- Blue (0%)



- Cyan (0%)
- Magenta (52%)
- Yellow (100%)
- Black (33%)




- Cyan (33%)
- Magenta (67%)
- Yellow (100%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 20.1065, 14.9572, 1.8273 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 20.1065, 14.9572, 1.8273 by changing the saturation by 10% instead.





 20.1065, 14.9572,  
1.8273


 20.1065, 14.9572,  
1.8273


 245.3137,  
223.1070, 119.6347


 12.5812, 8.7894,  
0.4459


 43.0982, 34.7781,  
8.5630


 7.2158, 4.6040,  
0.0000


 59.2954, 49.1999,  
14.8418


 3.6450, 2.0169,  
0.0000

 79.1139, 67.1418,  
23.6192

 1.5033, 0.6172,  
0.0000

 102.9191, 88.9883,  
35.3138


 0.3281, 0.0000,  
0.0000


 131.0763,  
115.1236, 50.3441


 0.0000, 0.0000,  
0.0000


 163.9509,


145.9323, 69.1286


 201.9082,  
181.7986, 92.0860


 20.1065, 14.9572,  
1.8273


 20.1065, 14.9572,  
1.8273


 20.1066, 14.9577,  
1.8274

 20.9348, 16.4496,  
2.6104

 21.9425, 18.1580,  
3.8924

 23.1681, 20.1032,  
5.8614

 24.6310, 22.2974,  
8.6040

 26.3475, 24.7517,  
12.1937

■ 28.3325, 27.4760,  
16.6957

■ 30.5995, 30.4799,  
22.1684

■ 33.1608, 33.7721,  
28.6653

■ 36.0282, 37.3610,  
36.2363

# Harmonies

## Analogous

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



25.1612, 14.9572, 5.7014



20.1065, 14.9572, 1.8273



14.3251, 14.9572, 1.0311

# Triad

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



20.1065, 14.9572, 1.8273



6.2265, 14.9572, 15.9772



19.8707, 14.9572, 57.6501

# Complementary

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



20.1065, 14.9572, 1.8273



11.0185, 10.1228, 40.4025

# 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.



14.1082, 14.9572, 66.8870



20.1065, 14.9572, 1.8273



7.0194, 14.9572, 35.3862

# Square

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



20.1065, 14.9572, 1.8273



7.0874, 14.9572, 5.4383



9.6060, 14.9572, 56.9316



25.0028, 14.9572, 36.2965



# Rectangle

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



20.1065, 14.9572, 1.8273



11.0740, 14.9572, 1.3190



9.6060, 14.9572, 56.9316



17.9032, 14.9572, 62.7050

# Sweetspot

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



20.1068, 14.9580, 1.8276



55.2772, 54.9882, 39.6345



18.9333, 9.5387, 10.9078



11.6378, 11.4569, 7.6961



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123



# Same Dimension

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



20.1068, 14.9580, 1.8276



36.2580, 26.6981, 3.2422



30.6977, 36.1398, 5.3579



8.3122, 8.6292, 8.4409



15.0173, 11.2401, 1.3781



0.4727, 0.4226, 0.0567



# Inverse Universe

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



11.0185, 10.1228, 40.4025



19.7667, 17.9193, 73.2227



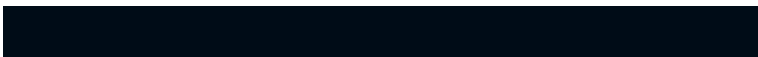
7.5086, 3.1031, 39.2325



7.9088, 8.4169, 10.1605



8.2547, 7.6433, 30.0848



0.2841, 0.3216, 0.8551



# Previews

## White Background



This preview shows how the XYZ color 20.1065, 14.9572, 1.8273 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



This preview shows how the XYZ color 20.1065, 14.9572, 1.8273 looks on a 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 20.1065, 14.9572, 1.8273**

## **Background**



This preview shows how black text looks on a background with the XYZ color 20.1065, 14.9572, 1.8273.



This preview shows how white text looks on a background with the XYZ color 20.1065, 14.9572,



# 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

20.1065, 14.9572, 1.8273

### Protanopia

13.5809, 15.1093, 2.6525

### Deuteranopia

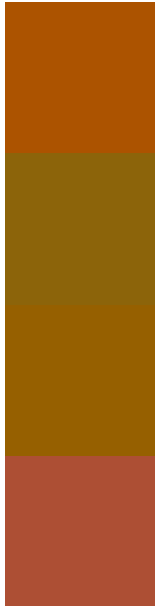
15.1668, 15.0189, 2.0996



## Tritanopia

21.6324, 14.9156, 9.7215

# Trichromacy



## Original Color

20.1065, 14.9572, 1.8273

## Protanomaly

15.4272, 14.7117, 2.3137

## Deuteranomaly

16.7605, 14.8498, 1.9829

## Tritanomaly

20.6494, 14.7241, 5.0025

# Monochromacy



## Original Color

20.1065, 14.9572, 1.8273

## Achromatopsia

12.1130, 12.7438, 13.8780

## Achromatomaly

13.5323, 12.8112, 6.6101

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 20.1065, 14.9572, 1.8273 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(172, 83, 0)` looks like.

```
.text, #text, p{  
    color:rgb(172, 83, 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(172, 83, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(172, 83, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 20.1065, 14.9572, 1.8273 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(172, 83, 0) }
```



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

```
.border{ border-color:rgb(172, 83, 0) }
```

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

Here you see how a box with a 4 pixel rgb(172, 83, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(172, 83, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(172, 83, 0);  
box-shadow:4px 4px 4px 4px rgb(172, 83, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 20.1065, 14.9572, 1.8273 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(172, 83, 0) }
```

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

```
.background{ background-color: rgb(172, 83,  
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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