

# Converting Colors

XYZ(20.2141, 13.0986, 1.4629)

Have a look what the booklet for  
XYZ(20.2141, 13.0986, 1.4629)  
contains.

<b>XYZ(20.1376, 13.0200, 1.4517)</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(20.1376, 13.0200,  
1.4517)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	B23F00
RGB	178, 63, 0
RGB Percent	70%, 25%, 0%
CMY	0.3020, 0.7529, 1.0000
CMYK	0.00, 0.65, 1.00, 0.30
HSL	21°, 100%, 35%
HSV	21°, 100%, 70%
XYZ	20.1376, 13.0200, 1.4517
YIQ	90.2030, 88.7630, 4.7870

# Conversions

## Conversions Part 2

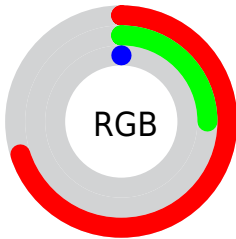
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	178, 98, 0
Decimal	11681536
CIE <sub>Lab</sub>	42.79, 44.66, 53.94
CIE <sub>LCh</sub>	43, 70.029, 50.381
Yxy	13.0200, 0.5819, 0.3762
Android (android.graphics.Color)	4289871616 (0xFFB23F00)
YUV	90.2030, -44.4701, 76.9980
Hunter-Lab	36.0832, 36.4729, 22.8729

# Details

The XYZ color **20.1376, 13.0200, 1.4517** is a dark color, and the websafe version is hex **993300**. A complement of this color would be **14.1657, 15.4741, 44.3593**, and the grayscale version is **9.8474, 10.3602, 11.2823**.

A 20% lighter version of the original color is **43.1202, 31.2478, 7.5001**, and **7.3361, 3.7819, 0.3433** is the 20% darker color. If you saturate the color by 10%, you get **20.1378, 13.0207, 1.4519**, and if you desaturate by 10%, it is **20.9503, 14.4734, 2.2532**.

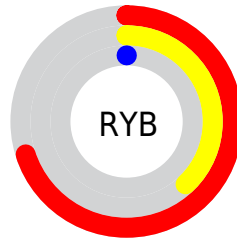
# Distribution



Red (70%)

Green (25%)

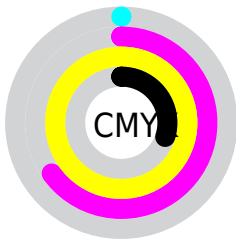
Blue (0%)



Red (70%)

Yellow (38%)

Blue (0%)

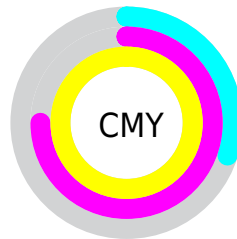


Cyan (0%)

Magenta (65%)

Yellow (100%)

Black (30%)



Cyan (30%)

Magenta (75%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 20.1376, 13.0200, 1.4517 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 20.1376, 13.0200, 1.4517 by changing the saturation by 10% instead.



■ 20.1376, 13.0200,  
1.4517

■ 20.1376, 13.0200,  
1.4517

■ 245.4784,  
211.0458, 113.1796

■ 12.6040, 7.4423,  
0.1816

■ 43.1499, 31.3397,  
7.4789

■ 7.2315, 3.7402,  
0.0000

■ 59.3593, 44.8505,  
13.2657

■ 3.6549, 1.5293,  
0.0000

■ 79.1914, 61.7745,  
21.4594

■ 1.5088, 0.3092,  
0.0000

■ 103.0114, 82.4961,  
32.4784


■ 0.3318, 0.0000,  
0.0000


■ 131.1848,  
107.3996, 46.7415


■ 0.0000, 0.0000,  
0.0000


■ 164.0768,


136.8694, 64.6670


 202.0529,  
171.2901, 86.6735


 20.1376, 13.0200,  
1.4517


 20.1376, 13.0200,  
1.4517


 20.1378, 13.0207,  
1.4519

 20.9503, 14.4734,  
2.2532

 22.0006, 16.2464,  
3.6136

 23.3333, 18.3687,  
5.7324

 24.9729, 20.8607,  
8.7054

 26.9404, 23.7406,  
12.6138

■ 29.2550, 27.0256,  
17.5295

■ 31.9342, 30.7315,  
23.5172

■ 34.9942, 34.8731,  
30.6359

■ 38.4501, 39.4648,  
38.9406

# Harmonies

## Analogous

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



24.6981, 13.0200, 6.2086



20.1376, 13.0200, 1.4517



14.1697, 13.0200, 0.3312

# Triad

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



20.1376, 13.0200, 1.4517



4.7658, 13.0200, 9.8120



16.3028, 13.0200, 63.4043

# Complementary

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



20.1376, 13.0200, 1.4517



14.1657, 15.4741, 44.3593

# 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.



10.7388, 13.0200, 67.3554



20.1376, 13.0200, 1.4517



5.0343, 13.0200, 27.0682

# Square

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



20.1376, 13.0200, 1.4517



6.0353, 13.0200, 2.4825



6.9182, 13.0200, 50.9893



22.0792, 13.0200, 42.3781



# Rectangle

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



20.1376, 13.0200, 1.4517



10.6170, 13.0200, 0.3425



6.9182, 13.0200, 50.9893



14.3173, 13.0200, 67.1638

# Sweetspot

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



20.1379, 13.0208, 1.4519



57.6419, 55.3616, 42.0333



21.4949, 10.7189, 17.3677



12.3068, 11.6273, 8.2652



86.6293, 91.1408, 99.2523



17.0014, 17.8868, 19.4787



# Same Dimension

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



20.1379, 13.0208, 1.4519



36.3228, 23.2198, 2.5675



29.4748, 31.6947, 4.5642



8.7343, 8.9811, 8.9257



14.4634, 9.4254, 1.0570



0.5113, 0.4090, 0.0520



# Inverse Universe

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



14.1657, 15.4741, 44.3593



25.4647, 27.6132, 80.3689



8.4209, 3.9845, 42.4444



8.4845, 9.1152, 10.8186



10.1967, 11.1937, 31.7602



0.3733, 0.4571, 1.0168



# Previews

## White Background



This preview shows how the XYZ color 20.1376, 13.0200, 1.4517 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 20.1376, 13.0200, 1.4517 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 20.1376, 13.0200, 1.4517**

## **Background**



This preview shows how black text looks on a background with the XYZ color 20.1376, 13.0200, 1.4517.



This preview shows how white text looks on a background with the XYZ color 20.1376, 13.0200,



# 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

20.1376, 13.0200, 1.4517

### Protanopia

11.9308, 13.1913, 2.4896

### Deuteranopia

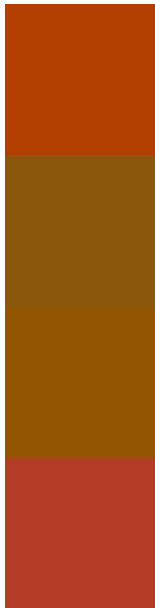
13.3280, 13.2165, 1.8486



## Tritanopia

21.0239, 13.0594, 5.9701

# Trichromacy



## Original Color

20.1376, 13.0200, 1.4517

## Protanomaly

14.0314, 12.4069, 1.9718

## Deuteranomaly

15.2811, 12.7000, 1.6460

## Tritanomaly

20.5725, 12.9619, 3.3371

# Monochromacy



## Original Color

20.1376, 13.0200, 1.4517

## Achromatopsia

9.7181, 10.2242, 11.1341

## Achromatomaly

11.6332, 10.1703, 5.2208

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 20.1376, 13.0200, 1.4517 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(178, 63, 0)` looks like.

```
.text, #text, p{  
    color:rgb(178, 63, 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(178, 63, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(178, 63, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 20.1376, 13.0200, 1.4517 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(178, 63, 0) }
```



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

```
.border{ border-color:rgb(178, 63, 0) }
```

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

Here you see how a box with a 4 pixel rgb(178, 63, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(178, 63, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(178, 63, 0);  
box-shadow:4px 4px 4px 4px rgb(178, 63, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 20.1376, 13.0200, 1.4517 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(178, 63, 0) }
```

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

```
.background{ background-color: rgb(178, 63,  
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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