

# Converting Colors

XYZ(20.5120, 13.1578, 1.4285)

Have a look what the booklet for  
XYZ(20.5120, 13.1578, 1.4285)  
contains.

<b>XYZ(20.5450, 13.1485, 1.4551)</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(20.5450, 13.1485,  
1.4551)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	B43E00
RGB	180, 62, 0
RGB Percent	71%, 24%, 0%
CMY	0.2941, 0.7568, 1.0000
CMYK	0.00, 0.66, 1.00, 0.29
HSL	21°, 100%, 35%
HSV	21°, 100%, 71%
XYZ	20.5450, 13.1485, 1.4551
YIQ	90.2140, 90.2300, 5.7340

# Conversions

## Conversions Part 2

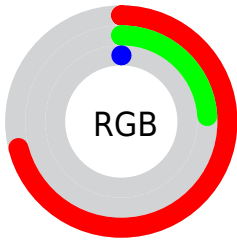
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	180, 95, 0
Decimal	11812352
CIE <sub>Lab</sub>	42.99, 45.82, 54.24
CIE <sub>LCh</sub>	43, 71.003, 49.808
Yxy	13.1485, 0.5845, 0.3741
Android (android.graphics.Color)	4290002432 (0xFFB43E00)
YUV	90.2140, -44.4755, 78.7423
Hunter-Lab	36.2609, 37.6796, 23.0034

# Details

The XYZ color **20.5450, 13.1485, 1.4551** is a dark color, and the websafe version is hex **993300**. A complement of this color would be **14.7161, 16.2511, 45.5408**, and the grayscale version is **9.8496, 10.3626, 11.2849**.

A 20% lighter version of the original color is **43.8067, 31.6017, 7.5322**, and **7.4712, 3.8516, 0.3496** is the 20% darker color. If you saturate the color by 10%, you get **20.5451, 13.1490, 1.4552**, and if you desaturate by 10%, it is **21.3673, 14.6187, 2.2679**.

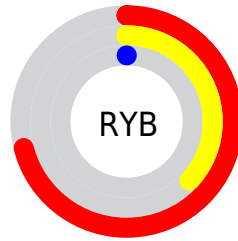
# Distribution



Red (71%)

Green (24%)

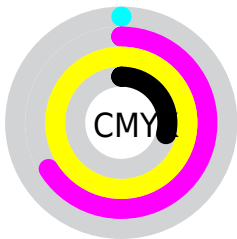
Blue (0%)



Red (71%)

Yellow (37%)

Blue (0%)

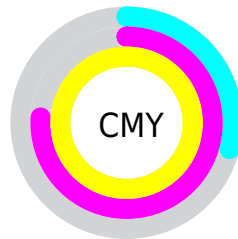


Cyan (0%)

Magenta (66%)

Yellow (100%)

Black (29%)



Cyan (29%)

Magenta (76%)


Yellow (100%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 20.5450, 13.1485, 1.4551 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 20.5450, 13.1485, 1.4551 by changing the saturation by 10% instead.





 20.5450, 13.1485,  
1.4551


 20.5450, 13.1485,  
1.4551


 247.6282,  
211.8672, 113.2416


 12.9024, 7.5309,  
0.1841


 43.8261, 31.5703,  
7.4890


 7.4379, 3.7963,  
0.0000


 60.1952, 45.1433,  
13.2805


 3.7862, 1.5603,  
0.0000

 80.2039, 62.1369,  
21.4798

 1.5819, 0.3306,  
0.0000

 104.2175, 82.9354,  
32.5054

 0.3806, 0.0000,  
0.0000


 132.6014,  
107.9233, 46.7759


 0.0000, 0.0000,  
0.0000


 165.7209,


137.4850, 64.7097


 203.9414,  
172.0048, 86.7254


 20.5450, 13.1485,  
1.4551


 20.5450, 13.1485,  
1.4551


 20.5451, 13.1490,  
1.4552

 21.3673, 14.6187,  
2.2679

 22.4372, 16.4235,  
3.6568

 23.8004, 18.5941,  
5.8250

 25.4826, 21.1522,  
8.8711

 27.5057, 24.1173,  
12.8789

■ 29.8899, 27.5074,  
17.9223

■ 32.6532, 31.3394,  
24.0678

■ 35.8127, 35.6293,  
31.3763

■ 39.3841, 40.3919,  
39.9044

# Harmonies

## Analogous

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



25.1627, 13.1485, 6.3695



20.5450, 13.1485, 1.4551



14.4429, 13.1485, 0.2958

# Triad

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



20.5450, 13.1485, 1.4551



4.7652, 13.1485, 9.6393



16.3917, 13.1485, 65.1161

# Complementary

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



20.5450, 13.1485, 1.4551



14.7161, 16.2511, 45.5408

# 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.



10.7347, 13.1485, 68.7535



20.5450, 13.1485, 1.4551



5.0081, 13.1485, 27.0716

# Square

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



20.5450, 13.1485, 1.4551



6.0841, 13.1485, 2.3747



6.8850, 13.1485, 51.6101



22.3228, 13.1485, 43.6958



# Rectangle

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



20.5450, 13.1485, 1.4551



10.7971, 13.1485, 0.2900



6.8850, 13.1485, 51.6101



14.3671, 13.1485, 68.8527

# Sweetspot

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



20.5453, 13.1493, 1.4553



58.9323, 56.4475, 43.0156



22.2125, 11.0594, 18.7335



12.2730, 11.5598, 8.2540



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.



20.5453, 13.1493, 1.4553



37.0576, 23.4513, 2.5734



29.7286, 31.5159, 4.5164



8.7278, 8.9681, 8.9235



14.3965, 9.2917, 1.0347



0.5087, 0.4038, 0.0511



# Inverse Universe

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



14.7161, 16.2511, 45.5408



26.4580, 29.0158, 82.5007



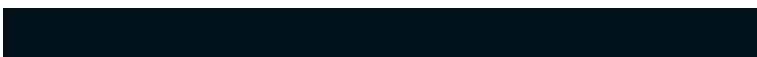
8.7025, 4.2240, 43.5363



8.4913, 9.1288, 10.8208



10.3353, 11.4710, 31.8064



0.3770, 0.4645, 1.0180



# Previews

## White Background



This preview shows how the XYZ color 20.5450, 13.1485, 1.4551 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 20.5450, 13.1485, 1.4551 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 20.5450, 13.1485, 1.4551**

## **Background**



This preview shows how black text looks on a background with the XYZ color 20.5450, 13.1485, 1.4551.



This preview shows how white text looks on a background with the XYZ color 20.5450, 13.1485,



# 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

20.5450, 13.1485, 1.4551

### Protanopia

12.0380, 13.3924, 2.5666

### Deuteranopia

13.3280, 13.2165, 1.8486



## Tritanopia

21.4114, 13.1868, 5.8317

# Trichromacy



## Original Color

20.5450, 13.1485, 1.4551

## Protanomaly

14.2035, 12.4950, 2.0110

## Deuteranomaly

15.3831, 12.6365, 1.6283

## Tritanomaly

20.9862, 13.0982, 3.3416

# Monochromacy



## Original Color

20.5450, 13.1485, 1.4551

## Achromatopsia

9.7181, 10.2242, 11.1341

## Achromatomaly

11.7756, 10.2437, 5.2275

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 20.5450, 13.1485, 1.4551 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(180, 62, 0)` looks like.

```
.text, #text, p{  
    color:rgb(180, 62, 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(180, 62, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(180, 62, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 20.5450, 13.1485, 1.4551 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(180, 62, 0) }
```



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

```
.border{ border-color:rgb(180, 62, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(180, 62, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(180, 62, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(180, 62, 0);  
box-shadow:4px 4px 4px 4px rgb(180, 62, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 20.5450, 13.1485, 1.4551 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(180, 62, 0) }
```

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

```
.background{ background-color: rgb(180, 62,  
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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