

# Converting Colors

XYZ(23.2180, 17.8338, 4.0316)

Have a look what the booklet for  
XYZ(23.2180, 17.8338, 4.0316)  
contains.

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# Color

**XYZ(23.1749, 17.8486,  
4.0574)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	B45E26
RGB	180, 94, 38
RGB Percent	71%, 37%, 15%
CMY	0.2941, 0.6314, 0.8510
CMYK	0.00, 0.48, 0.79, 0.29
HSL	24°, 65%, 43%
HSV	24°, 79%, 71%
XYZ	23.1749, 17.8486, 4.0574
YIQ	113.3300, 69.2320, 0.8160

# Conversions

## Conversions Part 2

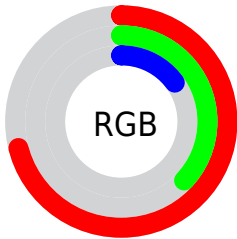
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	180, 130, 38
Decimal	11820582
CIE <sub>Lab</sub>	49.31, 30.85, 45.80
CIE <sub>LCh</sub>	49, 55.224, 56.040
Yxy	17.8486, 0.5141, 0.3959
Android (android.graphics.Color)	4290010662 (0xFFB45E26)
YUV	113.3300, -37.1377, 58.4696
Hunter-Lab	42.2476, 23.9828, 23.8792

# Details

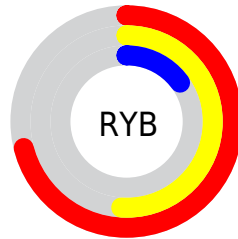
The XYZ color **23.1749, 17.8486, 4.0574** is a dark color, and the websafe version is hex **CC6633**. A complement of this color would be **16.2446, 18.1215, 45.8213**, and the grayscale version is **15.8873, 16.7146, 18.2022**.

A 20% lighter version of the original color is **48.2748, 39.9467, 14.1829**, and **8.8235, 5.9417, 0.6818** is the 20% darker color. If you saturate the color by 10%, you get **22.0498, 15.9563, 2.5796**, and if you desaturate by 10%, it is **24.5781, 20.0728, 6.3206**.

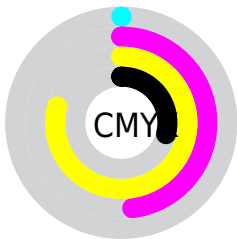
# Distribution



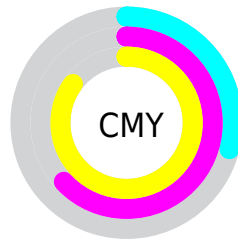
- Red (71%)
- Green (37%)
- Blue (15%)



- Red (71%)
- Yellow (51%)
- Blue (15%)



- Cyan (0%)
- Magenta (48%)
- Yellow (79%)
- Black (29%)




- Cyan (29%)
- Magenta (63%)
- Yellow (85%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 23.1749, 17.8486, 4.0574 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 23.1749, 17.8486, 4.0574 by changing the saturation by 10% instead.



 23.1749, 17.8486,  
4.0574


 23.1749, 17.8486,  
4.0574


261.1406,  
240.0163, 148.8612


 14.8441, 10.8413,  
1.6569

 48.1449, 39.7792,  
14.1419


 8.7957, 5.9603,  
0.3309


 65.5148, 55.4713,  
22.6630


 4.6642, 2.8209,  
0.0000

 86.6285, 74.8271,  
34.0614

 2.0843, 1.0390,  
0.0000

 111.8513, 98.2311,  
48.7556

 0.6807, 0.0000,  
0.0000

 141.5485,  
126.0676, 67.1641

 0.0000, 0.0000,  
0.0000

 176.0856,

158.7211, 89.7055

215.8279,  
196.5758, 116.7984

■ 23.1749, 17.8486,  
4.0574

■ 23.1749, 17.8486,  
4.0574

■ 22.0498, 15.9563,  
2.5796

■ 24.5781, 20.0728,  
6.3206

■ 21.1638, 14.3688,  
1.7155

■ 26.2815, 22.6440,  
9.4644

■ 21.0749, 14.2086,  
1.6318

■ 28.3058, 25.5793,  
13.5710

■ 30.6692, 28.8939,  
18.7129

■ 33.3886, 32.6017,  
24.9556

■ 36.4794, 36.7162,  
32.3589

■ 39.9563, 41.2498,  
40.9787

■ 43.8328, 46.2146,  
50.8667

■ 48.1220, 51.6221,  
62.0721

# Harmonies

## Analogous

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



27.6085, 17.8486, 9.3905



23.1749, 17.8486, 4.0574



17.6633, 17.8486, 2.5895

# Triad

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



23.1749, 17.8486, 4.0574



8.8268, 17.8486, 17.5258



21.7357, 17.8486, 58.1059

# Complementary

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



23.1749, 17.8486, 4.0574



16.2446, 18.1215, 45.8213

# 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.



16.2845, 17.8486, 64.1889



23.1749, 17.8486, 4.0574



9.4826, 17.8486, 34.8825

# Square

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



23.1749, 17.8486, 4.0574



9.9581, 17.8486, 7.4382



11.9764, 17.8486, 54.1038



26.6656, 17.8486, 40.1809



# Rectangle

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



23.1749, 17.8486, 4.0574



14.3528, 17.8486, 2.8717



11.9764, 17.8486, 54.1038



19.8754, 17.8486, 61.8992

# Sweetspot

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



23.1753, 17.8496, 4.0577



62.9655, 62.3620, 50.9939



23.2534, 12.5848, 20.7960



13.1957, 12.9256, 10.0404



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.



23.1753, 17.8496, 4.0577



38.7155, 26.6635, 3.4453



32.3463, 36.1915, 7.1147



8.7622, 9.0369, 8.9350



14.7708, 10.0401, 1.1594



0.5225, 0.4314, 0.0557



# Inverse Universe

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



16.2446, 18.1215, 45.8213



25.4727, 26.8256, 82.1299



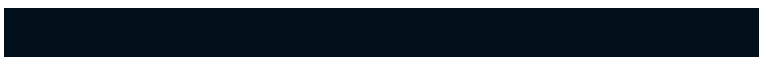
10.3833, 6.3989, 43.8675



8.4557, 9.0577, 10.8090



9.6341, 10.0685, 31.5726



0.3581, 0.4267, 1.0117



# Previews

## White Background



This preview shows how the XYZ color 23.1749, 17.8486, 4.0574 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 23.1749, 17.8486, 4.0574 looks on a black 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

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

**XYZ 23.1749, 17.8486, 4.0574**

## **Background**



This preview shows how black text looks on a background with the XYZ color 23.1749, 17.8486, 4.0574.



This preview shows how white text looks on a background with the XYZ color 23.1749, 17.8486,



# 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

23.1749, 17.8486, 4.0574

### Protanopia

16.2931, 17.9640, 4.9915

### Deuteranopia

18.2676, 17.9885, 3.8758



## Tritanopia

25.0385, 17.8549, 12.7163

# Trichromacy



## Original Color

23.1749, 17.8486, 4.0574

## Protanomaly

18.2810, 17.4940, 4.6037

## Deuteranomaly

19.8375, 17.6922, 3.8828

## Tritanomaly

24.1836, 17.7518, 8.6304

# Monochromacy



## Original Color

23.1749, 17.8486, 4.0574

## Achromatopsia

15.6958, 16.5132, 17.9829

## Achromatomaly

17.1503, 16.2983, 11.0461

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 23.1749, 17.8486, 4.0574 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, 94, 38)` looks like.

```
.text, #text, p{  
    color:rgb(180, 94, 38)  
}
```

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, 94, 38) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(180, 94, 38) }
```

## Border

The CSS property to change the border of an element to XYZ 23.1749, 17.8486, 4.0574 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, 94, 38) }
```



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

```
.border{ border-color:rgb(180, 94, 38) }
```

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

Here you see how a box with a 4 pixel rgb(180, 94, 38) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(180, 94, 38); -webkit-box-  
shadow:4px 4px 4px 4px rgb(180, 94, 38);  
box-shadow:4px 4px 4px 4px rgb(180, 94,  
38) }
```

# Background

The CSS property to change the background color of an element to XYZ 23.1749, 17.8486, 4.0574 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(180, 94, 38) }
```

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

```
.background{ background-color: rgb(180, 94,  
38) }
```

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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