

# Converting Colors

XYZ(21.5111, 18.2023, 2.3796)

Have a look what the booklet for  
XYZ(21.5111, 18.2023, 2.3796)  
contains.

<b>XYZ(21.5460, 18.1607, 2.3698)</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(21.5460, 18.1607,  
2.3698)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AB6600
RGB	171, 102, 0
RGB Percent	67%, 40%, 0%
CMY	0.3294, 0.6000, 1.0000
CMYK	0.00, 0.40, 1.00, 0.33
HSL	36°, 100%, 34%
HSV	36°, 100%, 67%
XYZ	21.5460, 18.1607, 2.3698
YIQ	111.0030, 73.8660, -17.0940

# Conversions

## Conversions Part 2

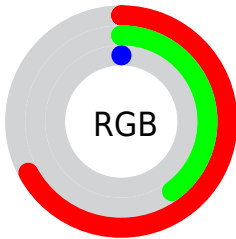
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	116, 171, 0
Decimal	11232768
CIE <sub>Lab</sub>	49.69, 21.72, 57.42
CIE <sub>LCh</sub>	50, 61.390, 69.280
Yxy	18.1607, 0.5121, 0.4316
Android (android.graphics.Color)	4289422848 (0xFFAB6600)
YUV	111.0030, -54.7245, 52.6174
Hunter-Lab	42.6154, 15.6713, 26.5337

# Details

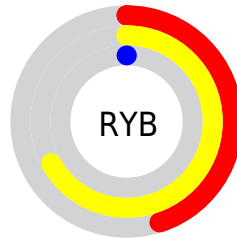
The XYZ color **21.5460, 18.1607, 2.3698** is a dark color, and the websafe version is hex **996600**. A complement of this color would be **9.4789, 7.1967, 39.4173**, and the grayscale version is **15.2499, 16.0441, 17.4720**.

A 20% lighter version of the original color is **45.5671, 40.2972, 10.0791**, and **8.1762, 6.2431, 0.7741** is the 20% darker color. If you saturate the color by 10%, you get **21.5461, 18.1611, 2.3698**, and if you desaturate by 10%, it is **22.3550, 19.6157, 3.1427**.

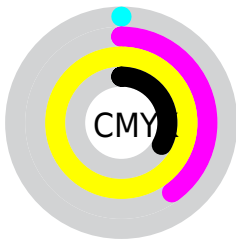
# Distribution



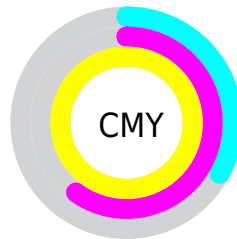
- Red (67%)
- Green (40%)
- Blue (0%)



- Red (45%)
- Yellow (67%)
- Blue (0%)



- Cyan (0%)
- Magenta (40%)
- Yellow (100%)
- Black (33%)



- Cyan (33%)
- Magenta (60%)
- Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 21.5460, 18.1607, 2.3698 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 21.5460, 18.1607, 2.3698 by changing the saturation by 10% instead.



■ 21.5460, 18.1607,  
2.3698

■ 21.5460, 18.1607,  
2.3698

252.8433,  
241.7753, 127.8779

■ 13.6384, 11.0654,  
0.7699

■ 45.4789, 40.3110,  
10.0292

■ 7.9496, 6.1109,  
0.0000

■ 62.2350, 56.1347,  
16.9385

■ 4.1143, 2.9126,  
0.0000

■ 82.6713, 75.6368,  
26.4590

■ 1.7670, 1.0863,  
0.0000

■ 107.1531, 99.2016,  
39.0092


■ 0.4977, 0.0000,  
0.0000


■ 136.0459,  
127.2134, 55.0077


■ 0.0000, 0.0000,  
0.0000


■ 169.7150,


160.0567, 74.8729


 208.5256,  
198.1158, 99.0235


 21.5460, 18.1607,  
2.3698


 21.5460, 18.1607,  
2.3698


 21.5461, 18.1611,  
2.3698

 22.3550, 19.6157,  
3.1427

 23.3091, 21.2203,  
4.3965

 24.4451, 22.9923,  
6.3171

 25.7804, 24.9403,  
8.9893

 27.3297, 27.0724,  
12.4853

■ 29.1061, 29.3955,  
16.8685

■ 31.1216, 31.9164,  
22.1962

■ 33.3873, 34.6411,  
28.5209

■ 35.9132, 37.5755,  
35.8910

# Harmonies

## Analogous

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



27.4920, 18.1607, 5.6036



21.5460, 18.1607, 2.3698



15.5133, 18.1607, 1.9890

# Triad

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



21.5460, 18.1607, 2.3698



8.3826, 18.1607, 25.4253



25.3896, 18.1607, 56.5665

# Complementary

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



21.5460, 18.1607, 2.3698



9.4789, 7.1967, 39.4173

# 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.



19.1357, 18.1607, 71.5095



21.5460, 18.1607, 2.3698



9.9475, 18.1607, 47.9157

# Square

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



21.5460, 18.1607, 2.3698



8.7457, 18.1607, 10.4398



13.5858, 18.1607, 67.6717



30.0357, 18.1607, 33.4714



# Rectangle

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



21.5460, 18.1607, 2.3698



12.3319, 18.1607, 2.8978



13.5858, 18.1607, 67.6717



23.3550, 18.1607, 63.1695

# Sweetspot

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



21.5464, 18.1617, 2.3701



55.5336, 56.9106, 39.1983



17.9400, 9.1162, 6.8181



12.0450, 12.2711, 7.8318



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.



21.5464, 18.1617, 2.3701



38.3751, 32.0995, 4.1732



28.4188, 36.2686, 5.5029



8.3875, 8.7797, 8.4660



16.2953, 13.7961, 1.8041



0.5051, 0.4874, 0.0674



# Inverse Universe

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



9.4789, 7.1967, 39.4173



16.7801, 12.4966, 70.5296



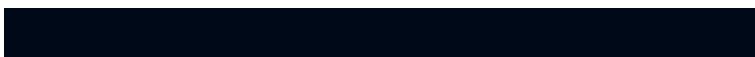
7.5358, 3.0358, 38.7166



7.8343, 8.2679, 10.1356



7.1944, 5.5227, 29.7313

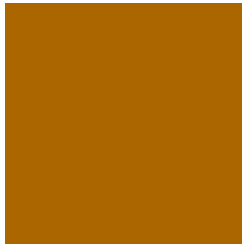


0.2547, 0.2627, 0.8453



# Previews

## White Background



This preview shows how the XYZ color 21.5460, 18.1607, 2.3698 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 21.5460, 18.1607, 2.3698 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 21.5460, 18.1607, 2.3698**

## **Background**



This preview shows how black text looks on a background with the XYZ color 21.5460, 18.1607, 2.3698.



This preview shows how white text looks on a background with the XYZ color 21.5460, 18.1607,



# 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

21.5460, 18.1607, 2.3698

### Protanopia

16.5010, 18.2910, 3.0416

### Deuteranopia

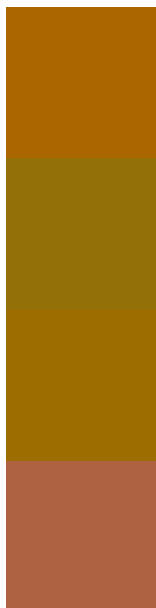
18.4828, 18.2943, 2.5570



## Tritanopia

24.1697, 18.2577, 14.8206

# Trichromacy



## Original Color

21.5460, 18.1607, 2.3698

## Protanomaly

17.9816, 18.0308, 2.7623

## Deuteranomaly

19.5692, 18.2064, 2.4828

## Tritanomaly

22.7774, 18.1157, 7.2972

# Monochromacy



## Original Color

21.5460, 18.1607, 2.3698

## Achromatopsia

15.1092, 15.8961, 17.3108

## Achromatomaly

16.1728, 16.1666, 8.2293

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 21.5460, 18.1607, 2.3698 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(171, 102, 0)` looks like.

```
.text, #text, p{  
    color:rgb(171, 102, 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(171, 102, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(171, 102, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 21.5460, 18.1607, 2.3698 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(171, 102, 0) }
```



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

```
.border{ border-color:rgb(171, 102, 0) }
```

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

Here you see how a box with a 4 pixel rgb(171, 102, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(171, 102, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(171, 102, 0);  
box-shadow:4px 4px 4px 4px rgb(171, 102,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 21.5460, 18.1607, 2.3698 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(171, 102, 0) }
```

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

```
.background{ background-color: rgb(171,  
102, 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