

# Converting Colors

XYZ(13.8328, 13.4001, 1.8574)

Have a look what the booklet for  
XYZ(13.8328, 13.4001, 1.8574)  
contains.

<b>XYZ(13.8557, 13.3523, 1.8470)</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(13.8557, 13.3523,  
1.8470)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	856000
RGB	133, 96, 0
RGB Percent	52%, 38%, 0%
CMY	0.4784, 0.6235, 1.0000
CMYK	0.00, 0.28, 1.00, 0.48
HSL	43°, 100%, 26%
HSV	43°, 100%, 52%
XYZ	13.8557, 13.3523, 1.8470
YIQ	96.1190, 52.8680, -22.0120

# Conversions

## Conversions Part 2

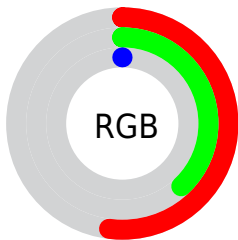
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	51, 133, 0
Decimal	8740864
CIE Lab	43.29, 7.59, 50.83
CIE LCh	43, 51.398, 81.508
Yxy	13.3523, 0.4769, 0.4596
Android (android.graphics.Color)	4286930944 (0xFF856000)
YUV	96.1190, -47.3867, 32.3446
Hunter-Lab	36.5408, 3.7380, 22.5817

# Details

The XYZ color **13.8557, 13.3523, 1.8470** is a dark color, and the websafe version is hex **996600**. A complement of this color would be **4.8952, 3.0166, 22.5142**, and the grayscale version is **11.2501, 11.8360, 12.8894**.

A 20% lighter version of the original color is **32.3035, 31.8207, 8.5771**, and **4.2825, 3.9009, 0.5272** is the 20% darker color. If you saturate the color by 10%, you get **13.8558, 13.3527, 1.8470**, and if you desaturate by 10%, it is **14.2762, 14.0739, 2.3553**.

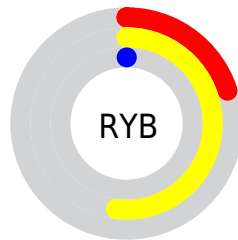
# Distribution



Red (52%)

Green (38%)

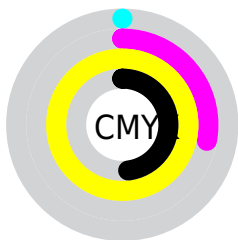
Blue (0%)



Red (20%)

Yellow (52%)

Blue (0%)

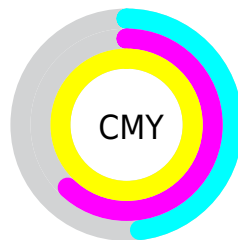


Cyan (0%)

Magenta (28%)

Yellow (100%)

Black (48%)



Cyan (48%)

Magenta (62%)


Yellow (100%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 13.8557, 13.3523, 1.8470 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 13.8557, 13.3523, 1.8470 by changing the saturation by 10% instead.





 13.8557, 13.3523,  
1.8470


 13.8557, 13.3523,  
1.8470


 209.8599,  
213.1633, 119.9539


 8.1014, 7.6716,  
0.4587


 32.4212, 31.9353,  
8.6181


 4.2123, 3.8855,  
0.0000

 45.9631, 45.6063,  
14.9213

 1.8229, 1.6097,  
0.0000

 62.8315, 62.7096,  
23.7275

 0.5314, 0.3642,  
0.0000


 83.3919, 83.6295,  
35.4553


 0.0000, 0.0000,  
0.0000


 108.0096,  
108.7504, 50.5233


 137.0499,


138.4568, 69.3501


 170.8782,  
173.1330, 92.3541


 13.8557, 13.3523,  
1.8470


 13.8557, 13.3523,  
1.8470


 13.8558, 13.3527,  
1.8470

 14.2762, 14.0739,  
2.3553

 14.7565, 14.8447,  
3.1007

 15.3226, 15.6759,  
4.2172

 15.9830, 16.5713,  
5.7492

 16.7452, 17.5341,  
7.7345

■ 17.6158, 18.5673,  
10.2071

■ 18.6006, 19.6736,  
13.1974

■ 19.7053, 20.8555,  
16.7333

■ 20.9350, 22.1153,  
20.8408

# Harmonies

## Analogous

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



18.0784, 13.3523, 3.2428



13.8557, 13.3523, 1.8470



10.0855, 13.3523, 2.1916

# Triad

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



13.8557, 13.3523, 1.8470



6.8168, 13.3523, 24.1516



19.6772, 13.3523, 32.9050

# Complementary

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



13.8557, 13.3523, 1.8470



4.8952, 3.0166, 22.5142

# 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.



15.7104, 13.3523, 45.9738



13.8557, 13.3523, 1.8470



8.4967, 13.3523, 39.3436

# Square

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



13.8557, 13.3523, 1.8470



6.5242, 13.3523, 11.5343



11.5934, 13.3523, 48.8017



21.8706, 13.3523, 18.0234



# Rectangle

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



13.8557, 13.3523, 1.8470



8.2627, 13.3523, 3.5233



11.5934, 13.3523, 48.8017



18.4720, 13.3523, 37.9207

# Sweetspot

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



13.8560, 13.3530, 1.8473



33.1827, 35.0918, 23.2360



10.0176, 5.1245, 2.2685



7.3295, 7.7437, 4.7844



64.0503, 67.3860, 73.3833



8.9945, 9.4630, 10.3052



# Same Dimension

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



13.8560, 13.3530, 1.8473



24.6767, 23.6390, 3.2622



14.1177, 19.7289, 3.0641



4.9331, 5.2099, 4.9750



13.2051, 12.7328, 1.7617



0.0519, 0.0564, 0.0082



# Inverse Universe

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



4.8952, 3.0166, 22.5142



8.6482, 5.1658, 40.2797



4.7353, 1.9522, 22.3172



4.5322, 4.7400, 5.8768



4.6688, 2.8855, 21.4476

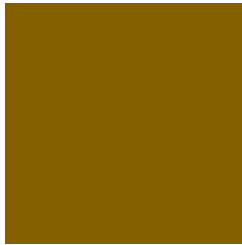


0.0217, 0.0210, 0.0761



# Previews

## White Background



This preview shows how the XYZ color 13.8557, 13.3523, 1.8470 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

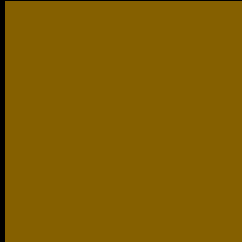
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 13.8557, 13.3523, 1.8470 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 13.8557, 13.3523, 1.8470**

## **Background**



This preview shows how black text looks on a background with the XYZ color 13.8557, 13.3523, 1.8470.



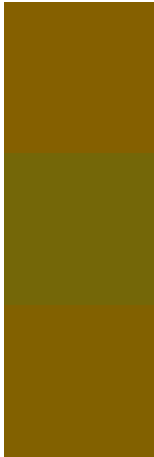
This preview shows how white text looks on a background with the XYZ color 13.8557, 13.3523,



# 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

13.8557, 13.3523, 1.8470

### Protanopia

12.0965, 13.4310, 2.1846

### Deuteranopia

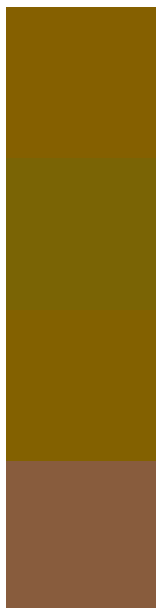
13.4806, 13.2952, 1.8557



## Tritanopia

16.0002, 13.3077, 12.7917

# Trichromacy



## Original Color

13.8557, 13.3523, 1.8470

## Protanomaly

12.6106, 13.2629, 2.0389

## Deuteranomaly

13.6348, 13.3747, 1.8629

## Tritanomaly

14.8228, 13.2255, 6.1864

# Monochromacy



## Original Color

13.8557, 13.3523, 1.8470

## Achromatopsia

11.1181, 11.6971, 12.7381

## Achromatomaly

11.3319, 11.9539, 6.1250

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 13.8557, 13.3523, 1.8470 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(133, 96, 0)` looks like.

```
.text, #text, p{  
    color:rgb(133, 96, 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(133, 96, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(133, 96, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 13.8557, 13.3523, 1.8470 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(133, 96, 0) }
```



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

```
.border{ border-color:rgb(133, 96, 0) }
```

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

Here you see how a box with a 4 pixel rgb(133, 96, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(133, 96, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(133, 96, 0);  
box-shadow:4px 4px 4px 4px rgb(133, 96, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 13.8557, 13.3523, 1.8470 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(133, 96, 0) }
```

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

```
.background{ background-color: rgb(133, 96,  
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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