

# Converting Colors

XYZ(13.1391, 10.0988, 1.6364)

Have a look what the booklet for  
XYZ(13.1391, 10.0988, 1.6364)  
contains.

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# Color

**XYZ(13.1411, 10.1110,  
1.6398)**

# Conversions

## Conversions Part 1

Format	Color
Hex	8C470D
RGB	140, 71, 13
RGB Percent	55%, 28%, 5%
CMY	0.4510, 0.7215, 0.9490
CMYK	0.00, 0.49, 0.91, 0.45
HSL	27°, 83%, 30%
HSV	27°, 91%, 55%
XYZ	13.1411, 10.1110, 1.6398
YIQ	85.0190, 59.7420, -3.4100

# Conversions

## Conversions Part 2

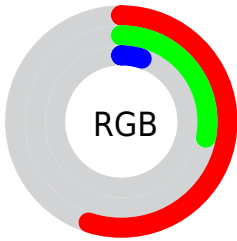
Format	Color
R <sub>Y</sub> B	140, 120, 13
Decimal	9193229
CIE Lab	38.04, 25.61, 43.78
CIE LCh	38, 50.723, 59.677
Yxy	10.1110, 0.5279, 0.4062
Android (android.graphics.Color)	4287383309 (0xFF8C470D)
YUV	85.0190, -35.5054, 48.2183
Hunter-Lab	31.7978, 18.1227, 19.2009

# Details

The XYZ color **13.1411, 10.1110, 1.6398** is a dark color, and the websafe version is hex **663300**. A complement of this color would be **7.9167, 8.0133, 25.9402**, and the grayscale version is **8.7023, 9.1554, 9.9703**.

A 20% lighter version of the original color is **31.1669, 25.9339, 8.0657**, and **3.9149, 2.5343, 0.2828** is the 20% darker color. If you saturate the color by 10%, you get **12.6452, 9.2355, 1.1162**, and if you desaturate by 10%, it is **13.7810, 11.1905, 2.4707**.

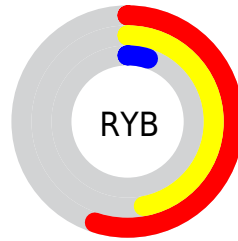
# Distribution



Red (55%)

Green (28%)

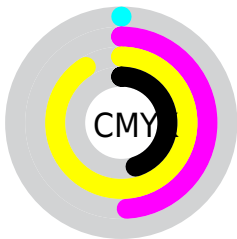
Blue (5%)



Red (55%)

Yellow (47%)

Blue (5%)

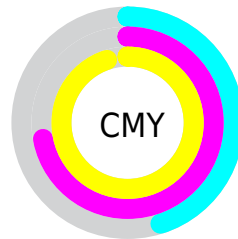


Cyan (0%)

Magenta (49%)

Yellow (91%)

Black (45%)



Cyan (45%)

Magenta (72%)


Yellow (95%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 13.1411, 10.1110, 1.6398 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 13.1411, 10.1110, 1.6398 by changing the saturation by 10% instead.





 13.1411, 10.1110,  
1.6398


 13.1411, 10.1110,  
1.6398


 205.4394,  
191.4625, 116.5061


 7.6034, 5.4726,  
0.3190


 31.1562, 26.0041,  
8.0304


 3.8919, 2.5271,  
0.0000

 44.3644, 38.0276,  
14.0704


 1.6412, 0.8902,  
0.0000

 60.8601, 53.2815,  
22.5651

 0.4190, 0.0000,  
0.0000

 81.0087, 72.1504,  
33.9329


 0.0000, 0.0000,  
0.0000


 105.1756, 95.0185,  
48.5923

 133.7261,


122.2703, 66.9620


 167.0256,  
154.2901, 89.4604


 13.1411, 10.1110,  
1.6398


 13.1411, 10.1110,  
1.6398


 12.6452, 9.2355,  
1.1162

 13.7810, 11.1905,  
2.4707

 14.5605, 12.4257,  
3.7291

 15.4917, 13.8251,  
5.4668

 16.5848, 15.3959,  
7.7283

 17.8489, 17.1446,  
10.5527

■ 19.2924, 19.0774,  
13.9754

■ 20.9230, 21.2002,  
18.0290

■ 22.7482, 23.5185,  
22.7435

■ 24.7746, 26.0377,  
28.1471

# Harmonies

## Analogous

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



16.1618, 10.1110, 4.2910



13.1411, 10.1110, 1.6398



9.6457, 10.1110, 1.0412

# Triad

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



13.1411, 10.1110, 1.6398



4.6001, 10.1110, 10.9080



13.0657, 10.1110, 35.1844

# Complementary

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



13.1411, 10.1110, 1.6398



7.9167, 8.0133, 25.9402

# 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.



9.5748, 10.1110, 40.5527



13.1411, 10.1110, 1.6398



5.1225, 10.1110, 22.5261

# Square

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



13.1411, 10.1110, 1.6398



5.1458, 10.1110, 4.1979



6.7763, 10.1110, 34.9648



16.1118, 10.1110, 22.8104



# Rectangle

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



13.1411, 10.1110, 1.6398



7.6475, 10.1110, 1.2747



6.7763, 10.1110, 34.9648



11.8829, 10.1110, 38.1004

# Sweetspot

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



13.1413, 10.1115, 1.6400



34.8811, 34.7744, 26.7633



12.5147, 6.4856, 8.7457



7.8483, 7.7644, 5.7037



67.5393, 71.0566, 77.3807



10.1266, 10.6539, 11.6021



# Same Dimension

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



13.1413, 10.1115, 1.6400



22.1373, 15.9688, 1.9155



19.3645, 22.5579, 3.7144



5.2087, 5.4003, 5.3202



11.2552, 8.2449, 0.9982



0.0891, 0.0835, 0.0114



# Inverse Universe

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



7.9167, 8.0133, 25.9402



12.7472, 12.1413, 45.4146



5.1385, 2.4568, 25.0141



4.9850, 5.3129, 6.3686



6.5259, 6.3222, 22.9220



0.0580, 0.0713, 0.1572



# Previews

## White Background



This preview shows how the XYZ color 13.1411, 10.1110, 1.6398 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



## 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 13.1411, 10.1110, 1.6398**

## **Background**



This preview shows how black text looks on a background with the XYZ color 13.1411, 10.1110, 1.6398.



This preview shows how white text looks on a background with the XYZ color 13.1411, 10.1110,



# 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

13.1411, 10.1110, 1.6398

### Protanopia

9.3298, 10.3506, 2.0784

### Deuteranopia

10.2672, 10.2330, 1.4340



## Tritanopia

14.2409, 10.1021, 7.1606

# Trichromacy



## Original Color

13.1411, 10.1110, 1.6398

## Protanomaly

10.4663, 10.0911, 1.8863

## Deuteranomaly

11.1382, 10.1068, 1.5073

## Tritanomaly

13.6274, 10.0273, 4.2348

# Monochromacy



## Original Color

13.1411, 10.1110, 1.6398

## Achromatopsia

8.6345, 9.0842, 9.8927

## Achromatomaly

9.4838, 9.0563, 5.3859

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 13.1411, 10.1110, 1.6398 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(140, 71, 13)` looks like.

```
.text, #text, p{  
    color:rgb(140, 71, 13)  
}
```

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(140, 71, 13) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(140, 71, 13) }
```

## Border

The CSS property to change the border of an element to XYZ 13.1411, 10.1110, 1.6398 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(140, 71, 13) }
```



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

```
.border{ border-color:rgb(140, 71, 13) }
```

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

Here you see how a box with a 4 pixel `rgb(140, 71, 13)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(140, 71, 13); -webkit-box-  
shadow:4px 4px 4px 4px rgb(140, 71, 13);  
box-shadow:4px 4px 4px 4px rgb(140, 71,  
13) }
```

# Background

The CSS property to change the background color of an element to XYZ 13.1411, 10.1110, 1.6398 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(140, 71, 13) }
```

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

```
.background{ background-color: rgb(140, 71,  
13) }
```

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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