

# Converting Colors

XYZ(12.9219, 10.5741, 1.7033)

Have a look what the booklet for  
XYZ(12.9219, 10.5741, 1.7033)  
contains.

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# Color

**XYZ(12.8736, 10.5685,  
1.7092)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	884D0C
RGB	136, 77, 12
RGB Percent	53%, 30%, 5%
CMY	0.4667, 0.6980, 0.9529
CMYK	0.00, 0.43, 0.91, 0.47
HSL	31°, 84%, 29%
HSV	31°, 91%, 53%
XYZ	12.8736, 10.5685, 1.7092
YIQ	87.2310, 56.0290, -7.7070

# Conversions

## Conversions Part 2

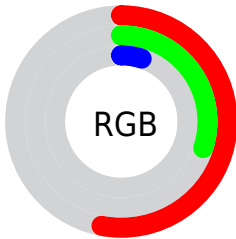
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	125, 136, 12
Decimal	8932620
CIE Lab	38.84, 20.38, 44.48
CIE LCh	39, 48.928, 65.383
Yxy	10.5685, 0.5118, 0.4202
Android (android.graphics.Color)	4287122700 (0xFF884D0C)
YUV	87.2310, -37.0889, 42.7704
Hunter-Lab	32.5092, 13.7945, 19.6392

# Details

The XYZ color **12.8736, 10.5685, 1.7092** is a dark color, and the websafe version is hex **996633**. A complement of this color would be **6.8487, 6.3619, 24.1595**, and the grayscale version is **9.1783, 9.6563, 10.5157**.

A 20% lighter version of the original color is **30.6062, 26.7499, 8.2528**, and **3.8248, 2.7385, 0.3270** is the 20% darker color. If you saturate the color by 10%, you get **12.4253, 9.7781, 1.2325**, and if you desaturate by 10%, it is **13.4650, 11.5664, 2.4770**.

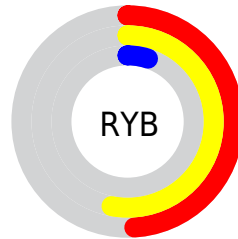
# Distribution



Red (53%)

Green (30%)

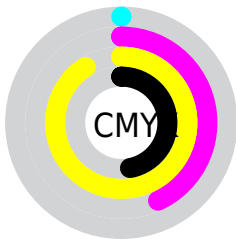
Blue (5%)



Red (49%)

Yellow (53%)

Blue (5%)

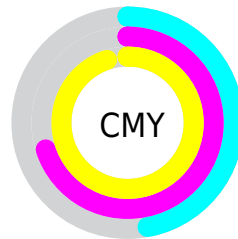


Cyan (0%)

Magenta (43%)

Yellow (91%)

Black (47%)



Cyan (47%)

Magenta (70%)


Yellow (95%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 12.8736, 10.5685, 1.7092 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 12.8736, 10.5685, 1.7092 by changing the saturation by 10% instead.





 12.8736, 10.5685,  
1.7092


 12.8736, 10.5685,  
1.7092


 203.7600,  
194.6828, 117.6841


 7.4180, 5.7775,  
0.3670


 30.6798, 26.8594,  
8.2294


 3.7735, 2.7103,  
0.0000

 43.7610, 39.1282,  
14.3593


 1.5748, 0.9824,  
0.0000

 60.1148, 54.6582,  
22.9604

 0.3759, 0.0000,  
0.0000


 80.1066, 73.8341,  
34.4514


 0.0000, 0.0000,  
0.0000


 104.1016, 97.0400,  
49.2507


 132.4653,


124.6605, 67.7769


 165.5630,  
157.0800, 90.4485


 12.8736, 10.5685,  
1.7092


 12.8736, 10.5685,  
1.7092


 12.4253, 9.7781,  
1.2325

 13.4650, 11.5664,  
2.4770

 14.1744, 12.6851,  
3.6384

 15.0123, 13.9312,  
5.2421

 15.9875, 15.3102,  
7.3291

 17.1081, 16.8270,  
9.9360

■ 18.3814, 18.4863,  
13.0956

■ 19.8140, 20.2924,  
16.8381

■ 21.4122, 22.2495,  
21.1915

■ 23.1819, 24.3615,  
26.1818

# Harmonies

## Analogous

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



16.0366, 10.5685, 3.9535



12.8736, 10.5685, 1.7092



9.4712, 10.5685, 1.3115

# Triad

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



12.8736, 10.5685, 1.7092



5.0270, 10.5685, 13.2657



14.1068, 10.5685, 33.0789

# Complementary

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



12.8736, 10.5685, 1.7092



6.8487, 6.3619, 24.1595

# 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.



10.6416, 10.5685, 40.0264



12.8736, 10.5685, 1.7092



5.7697, 10.5685, 25.2592

# Square

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



12.8736, 10.5685, 1.7092



5.3747, 10.5685, 5.5550



7.6645, 10.5685, 36.5838



16.8493, 10.5685, 20.6671



# Rectangle

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



12.8736, 10.5685, 1.7092



7.6016, 10.5685, 1.7377



7.6645, 10.5685, 36.5838



12.9630, 10.5685, 36.3660

# Sweetspot

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



12.8738, 10.5691, 1.7094



33.2669, 33.6908, 25.3251



11.4524, 5.9642, 6.6672



7.5390, 7.5922, 5.4393



65.7814, 69.2071, 75.3665



9.5508, 10.0482, 10.9424



# Same Dimension

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



12.8738, 10.5691, 1.7094



21.7408, 16.9195, 2.1199



18.6914, 22.6977, 3.7438



5.2356, 5.4540, 5.3292



11.7695, 9.2735, 1.1696



0.0929, 0.0909, 0.0127



# Inverse Universe

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



6.8487, 6.3619, 24.1595



10.9797, 9.4289, 42.2896



4.7576, 2.1345, 23.4537



4.9581, 5.2591, 6.3596



5.9885, 5.2473, 22.7429

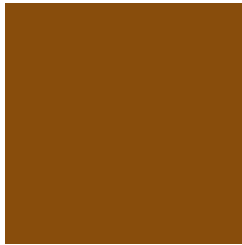


0.0543, 0.0639, 0.1559



# Previews

## White Background



This preview shows how the XYZ color 12.8736, 10.5685, 1.7092 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 12.8736, 10.5685, 1.7092**

## **Background**



This preview shows how black text looks on a background with the XYZ color 12.8736, 10.5685, 1.7092.



This preview shows how white text looks on a background with the XYZ color 12.8736, 10.5685,



# 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

12.8736, 10.5685, 1.7092

### Protanopia

9.6372, 10.6378, 2.0757

### Deuteranopia

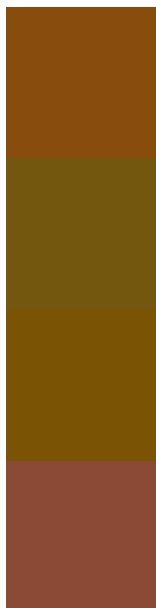
10.6107, 10.5294, 1.4731



## Tritanopia

14.3044, 10.6595, 8.3247

# Trichromacy



## Original Color

12.8736, 10.5685, 1.7092

## Protanomaly

10.6969, 10.5639, 1.9272

## Deuteranomaly

11.2835, 10.4062, 1.5288

## Tritanomaly

13.5726, 10.5579, 4.6907

# Monochromacy



## Original Color

12.8736, 10.5685, 1.7092

## Achromatopsia

9.0590, 9.5307, 10.3790

## Achromatomaly

9.7346, 9.5160, 5.5987

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 12.8736, 10.5685, 1.7092 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(136, 77, 12)` looks like.

```
.text, #text, p{  
    color:rgb(136, 77, 12)  
}
```

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(136, 77, 12) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(136, 77, 12) }
```

## Border

The CSS property to change the border of an element to XYZ 12.8736, 10.5685, 1.7092 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(136, 77, 12) }
```



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

```
.border{ border-color:rgb(136, 77, 12) }
```

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

Here you see how a box with a 4 pixel rgb(136, 77, 12) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(136, 77, 12); -webkit-box-  
shadow:4px 4px 4px 4px rgb(136, 77, 12);  
box-shadow:4px 4px 4px 4px rgb(136, 77,  
12) }
```

# Background

The CSS property to change the background color of an element to XYZ 12.8736, 10.5685, 1.7092 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(136, 77, 12) }
```

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

```
.background{ background-color: rgb(136, 77,  
12) }
```

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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