

Converting Colors

XYZ(12.6417, 13.6839, 0.0000)

Have a look what the booklet for
XYZ(12.6417, 13.6839, 0.0000)
contains.

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Color

**XYZ(12.9197, 13.7137,
1.9661)**

Conversions

Conversions Part 1

Format	Color
Hex	7B6600
RGB	123, 102, 0
RGB Percent	48%, 40%, 0%
CMY	0.5177, 0.6000, 1.0000
CMYK	0.00, 0.17, 1.00, 0.52
HSL	50°, 100%, 24%
HSV	50°, 100%, 48%
XYZ	12.9197, 13.7137, 1.9661
YIQ	96.6510, 45.2580, -27.2700

Conversions

Conversions Part 2

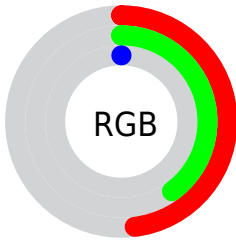
Format	Color
R_{YB}	25, 123, 0
Decimal	8087040
CIE Lab	43.82, -0.76, 50.67
CIE LCh	44, 50.673, 90.858
Yxy	13.7137, 0.4517, 0.4795
Android (android.graphics.Color)	4286277120 (0xFF7B6600)
YUV	96.6510, -47.6489, 23.1081
Hunter-Lab	37.0320, -2.5311, 22.7746

Details

The XYZ color **12.9197, 13.7137, 1.9661** is a dark color, and the websafe version is hex **666600**. A complement of this color would be **3.8434, 1.9665, 18.9156**, and the grayscale version is **11.3824, 11.9752, 13.0410**.

A 20% lighter version of the original color is **30.7972, 32.6924, 8.9620**, and **3.9400, 4.1304, 0.5896** is the 20% darker color. If you saturate the color by 10%, you get **12.9199, 13.7141, 1.9661**, and if you desaturate by 10%, it is **13.1972, 14.1596, 2.3953**.

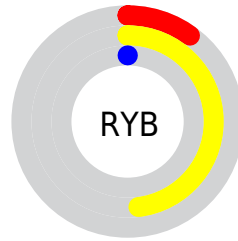
Distribution



Red (48%)

Green (40%)

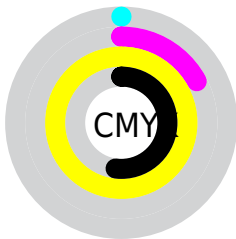
Blue (0%)



Red (10%)

Yellow (48%)

Blue (0%)

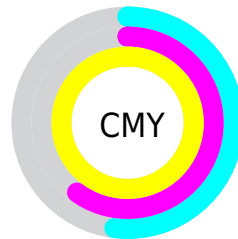


Cyan (0%)

Magenta (17%)

Yellow (100%)

Black (52%)



Cyan (52%)

Magenta (60%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9197, 13.7137, 1.9661 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 12.9197, 13.7137, 1.9661 by changing the saturation by 10% instead.

■ 12.9197, 13.7137,
1.9661

■ 12.9197, 13.7137,
1.9661

■ 204.0504,
215.4424, 121.8481

■ 7.4499, 7.9218,
0.5343

■ 30.7620, 32.5802,
8.9479

■ 3.7938, 4.0450,
0.0000

■ 43.8652, 46.4235,
15.3958

■ 1.5862, 1.6987,
0.0000

■ 60.2435, 63.7195,
24.3730

■ 0.3834, 0.4228,
0.0000


■ 80.2624, 84.8525,
36.2981


■ 0.0000, 0.0000,
0.0000


■ 104.2872,
110.2069, 51.5896


■ 132.6832,


140.1671, 70.6661


 165.8158,
175.1174, 93.9461


 12.9197, 13.7137,
1.9661


 12.9197, 13.7137,
1.9661


 12.9199, 13.7141,
1.9661

 13.1972, 14.1596,
2.3953

 13.5145, 14.6293,
3.0091

 13.8952, 15.1329,
3.9312

 14.3464, 15.6732,
5.1977

 14.8739, 16.2527,
6.8398

■ 15.4831, 16.8735,
8.8852

■ 16.1787, 17.5375,
11.3589

■ 16.9652, 18.2467,
14.2838

■ 17.8466, 19.0027,
17.6814

Harmonies

Analogous

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



17.1463, 13.7137, 2.7781



12.9197, 13.7137, 1.9661



9.4768, 13.7137, 2.8869

Triad

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



12.9197, 13.7137, 1.9661



7.4879, 13.7137, 29.3042



20.9645, 13.7137, 28.4183

Complementary

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



12.9197, 13.7137, 1.9661



3.8434, 1.9665, 18.9156

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.



17.3868, 13.7137, 42.9138



12.9197, 13.7137, 1.9661



9.6389, 13.7137, 43.5835

Square

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



12.9197, 13.7137, 1.9661



6.7615, 13.7137, 15.2640



13.1499, 13.7137, 49.5192



22.3272, 13.7137, 14.6047

Rectangle

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



12.9197, 13.7137, 1.9661



7.9365, 13.7137, 4.9023



13.1499, 13.7137, 49.5192



19.9493, 13.7137, 33.5789

Sweetspot

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



12.9200, 13.7144, 1.9664



28.8745, 31.3148, 19.9849



8.3185, 4.2711, 1.1734



6.6948, 7.2758, 4.3268



60.6688, 63.8283, 69.5090



7.9400, 8.3535, 9.0970

Same Dimension

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



12.9200, 13.7144, 1.9664



23.0461, 24.3779, 3.4907



10.7436, 16.0529, 2.5325



4.2523, 4.5231, 4.2734



13.3624, 14.1806, 2.0329



63.1959, 66.5553, 9.5157

Inverse Universe

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



3.8434, 1.9665, 18.9156



6.8039, 3.3643, 33.8474



4.4101, 1.8606, 18.8653



3.8479, 3.9940, 5.0113



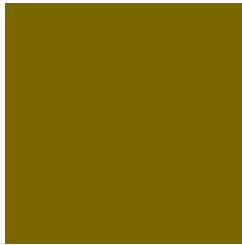
3.9727, 2.0279, 19.5673



18.5094, 8.7915, 93.1912

Previews

White Background



This preview shows how the XYZ color 12.9197, 13.7137, 1.9661 looks on a white background.

Color Contrast Check

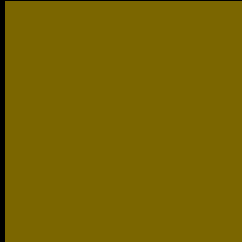
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.9197, 13.7137, 1.9661 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

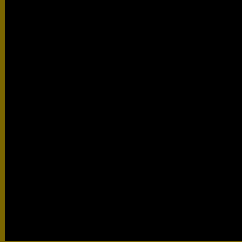
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.9197, 13.7137, 1.9661

Background



This preview shows how black text looks on a background with the XYZ color 12.9197, 13.7137, 1.9661.

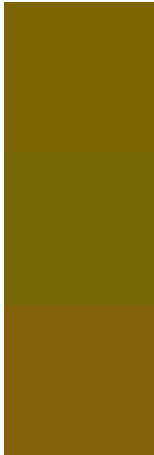


This preview shows how white text looks on a background with the XYZ color 12.9197, 13.7137,

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

12.9197, 13.7137, 1.9661

Protanopia

12.3138, 13.6935, 2.1377

Deuteranopia

13.7825, 13.5826, 2.1824



Tritanopia

15.3926, 13.7329, 14.4098

Trichromacy



Original Color

12.9197, 13.7137, 1.9661

Protanomaly

12.4744, 13.6290, 2.0593

Deuteranomaly

13.3968, 13.5260, 2.0770

Tritanomaly

13.9260, 13.5526, 6.8830

Monochromacy



Original Color

12.9197, 13.7137, 1.9661

Achromatopsia

11.3621, 11.9538, 13.0177

Achromatomaly

11.2752, 12.3357, 6.3442

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9197, 13.7137, 1.9661 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(123, 102, 0)` looks like.

```
.text, #text, p{  
    color:rgb(123, 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(123, 102, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(123, 102, 0) }
```

Border

The CSS property to change the border of an element to XYZ 12.9197, 13.7137, 1.9661 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(123, 102, 0) }
```


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

```
.border{ border-color:rgb(123, 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(123, 102, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(123, 102, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(123, 102, 0);  
box-shadow:4px 4px 4px 4px rgb(123, 102,  
0) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9197, 13.7137, 1.9661 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(123, 102, 0) }
```

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

```
.background{ background-color: rgb(123,  
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](#).

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