

Converting Colors

XYZ(12.7749, 13.3450, 2.1610)

Have a look what the booklet for
XYZ(12.7749, 13.3450, 2.1610)
contains.

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Color

**XYZ(12.7749, 13.3450,
2.1610)**

Conversions

Conversions Part 1

Format	Color
Hex	7B6409
RGB	123, 100, 9
RGB Percent	48%, 39%, 4%
CMY	0.5176, 0.6078, 0.9647
CMYK	0.00, 0.19, 0.93, 0.52
HSL	48°, 86%, 26%
HSV	48°, 93%, 48%
XYZ	12.7749, 13.3450, 2.1610
YIQ	96.5030, 42.9190, -23.4250

Conversions

Conversions Part 2

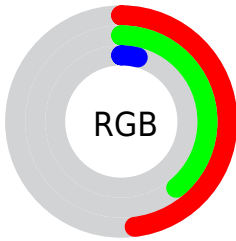
Format	Color
RYB	38, 123, 9
Decimal	8086537
CIELab	43.28, 0.61, 48.05
CIELCh	43, 48.059, 89.274
Yxy	13.3450, 0.4517, 0.4719
Android (android.graphics.Color)	4286276617 (0xFF7B6409)
YUV	96.5030, -43.1390, 23.2379
Hunter-Lab	36.5308, -1.5071, 22.0642

Details


The XYZ color **12.7749, 13.3450, 2.1610** is a dark color, and the websafe version is hex **666600**. A complement of this color would be **4.2045, 2.5214, 19.0040**, and the grayscale version is **11.3358, 11.9261, 12.9875**.

A 20% lighter version of the original color is **30.4222, 31.7666, 9.3786**, and **3.8450, 3.9404, 0.5579** is the 20% darker color. If you saturate the color by 10%, you get **12.5535, 12.9812, 1.8440**, and if you desaturate by 10%, it is **13.1057, 13.8645, 2.7098**.

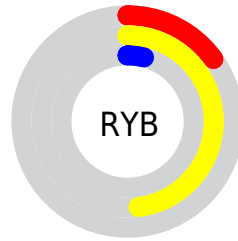
Distribution



 Red (48%)

 Green (39%)

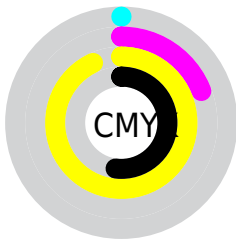
 Blue (4%)




 Red (15%)

 Yellow (48%)

 Blue (4%)

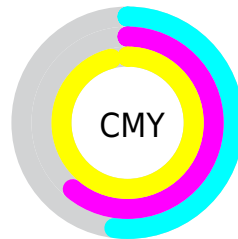


 Cyan (0%)

 Magenta (19%)

 Yellow (93%)

 Black (52%)



 Cyan (52%)

 Magenta (61%)

 Yellow (96%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.7749, 13.3450, 2.1610 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 12.7749, 13.3450, 2.1610 by changing the saturation by 10% instead.

■ 12.7749, 13.3450,
2.1610

■ 12.7749, 13.3450,
2.1610

203.1368,
213.1170, 124.8287

■ 7.3497, 7.6665,
0.6517

■ 30.5036, 31.9222,
9.4765

■ 3.7300, 3.8823,
0.0000

■ 43.5377, 45.5898,
16.1523

■ 1.5505, 1.6080,
0.0000

■ 59.8388, 62.6891,
25.3982

■ 0.3598, 0.3630,
0.0000


■ 79.7723, 83.6047,
37.6329


■ 0.0000, 0.0000,
0.0000


■ 103.7035,
108.7209, 53.2747


■ 131.9977,


138.4221, 72.7422


 165.0204,
173.0927, 96.4541


 12.7749, 13.3450,
2.1610


 12.7749, 13.3450,
2.1610


 12.5535, 12.9812,
1.8440

 13.1057, 13.8645,
2.7098

 13.4996, 14.4204,
3.5557

 13.9641, 15.0164,
4.7375

 14.5056, 15.6550,
6.2877

 15.1294, 16.3386,
8.2347

■ 15.8406, 17.0692,
10.6042

■ 16.6436, 17.8487,
13.4197

■ 17.5426, 18.6789,
16.7030

■ 18.5415, 19.5615,
20.4744

Harmonies

Analogous

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



16.7035, 13.3450, 3.0729



12.7749, 13.3450, 2.1610



9.4963, 13.3450, 2.9817

Triad

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



12.7749, 13.3450, 2.1610



7.4092, 13.3450, 27.0348



19.8848, 13.3450, 27.7209

Complementary

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



12.7749, 13.3450, 2.1610



4.2045, 2.5214, 19.0040

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.



16.5156, 13.3450, 40.7467



12.7749, 13.3450, 2.1610



9.3674, 13.3450, 40.2325

Square

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



12.7749, 13.3450, 2.1610



6.7890, 13.3450, 14.2723



12.5936, 13.3450, 46.1736



21.2709, 13.3450, 14.7916

Rectangle

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



12.7749, 13.3450, 2.1610



7.9964, 13.3450, 4.8403



12.5936, 13.3450, 46.1736



18.9179, 13.3450, 32.4263

Sweetspot

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



12.7752, 13.3457, 2.1613



28.9201, 31.1129, 20.9031



8.5506, 4.5203, 1.9130



6.6921, 7.2102, 4.5113



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.



12.7752, 13.3457, 2.1613



22.3781, 23.0420, 3.2681



11.4173, 16.3947, 2.8214



4.2424, 4.5032, 4.2701



12.9827, 13.4213, 1.9063



61.3165, 62.7964, 8.8892

Inverse Universe

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



4.2045, 2.5214, 19.0040



6.9298, 3.6161, 33.8893



4.5995, 2.1033, 18.9024



3.8571, 4.0125, 5.0144



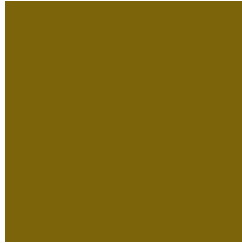
4.0506, 2.1835, 19.5933



18.8228, 9.4182, 93.2956

Previews

White Background



This preview shows how the XYZ color 12.7749, 13.3450, 2.1610 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 12.7749, 13.3450, 2.1610

Background



This preview shows how black text looks on a background with the XYZ color 12.7749, 13.3450, 2.1610.



This preview shows how white text looks on a background with the XYZ color 12.7749, 13.3450,

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

12.7749, 13.3450, 2.1610

Protanopia

12.1075, 13.4354, 2.2423

Deuteranopia

13.5533, 13.3243, 2.2383



Tritanopia

15.1167, 13.3380, 13.8343

Trichromacy



Original Color

12.7749, 13.3450, 2.1610

Protanomaly

12.4139, 13.4466, 2.2283

Deuteranomaly

13.1864, 13.2739, 2.2150

Tritanomaly

13.8002, 13.2066, 7.1320

Monochromacy



Original Color

12.7749, 13.3450, 2.1610

Achromatopsia

11.3621, 11.9538, 13.0177

Achromatomaly

11.2657, 12.1812, 6.7585

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.7749, 13.3450, 2.1610 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, 100, 9)` looks like.

```
.text, #text, p{  
    color:rgb(123, 100, 9)  
}
```

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, 100, 9) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(123, 100, 9) }
```

Border

The CSS property to change the border of an element to XYZ 12.7749, 13.3450, 2.1610 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, 100, 9) }
```


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

```
.border{ border-color:rgb(123, 100, 9) }
```

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

Here you see how a box with a 4 pixel `rgb(123, 100, 9)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(123, 100, 9); -webkit-box-  
shadow:4px 4px 4px 4px rgb(123, 100, 9);  
box-shadow:4px 4px 4px 4px rgb(123, 100,  
9) }
```

Background

The CSS property to change the background color of an element to XYZ 12.7749, 13.3450, 2.1610 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(123, 100, 9) }
```

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

```
.background{ background-color: rgb(123,  
100, 9) }
```

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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