

Converting Colors

XYZ(12.9655, 6.6487, 2.1978)

Have a look what the booklet for
XYZ(12.9655, 6.6487, 2.1978)
contains.

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Color

**XYZ(12.8810, 6.6054,
2.1862)**

Conversions

Conversions Part 1

Format	Color
Hex	960023
RGB	150, 0, 35
RGB Percent	59%, 0%, 14%
CMY	0.4118, 0.9999, 0.8627
CMYK	0.00, 1.00, 0.77, 0.41
HSL	346°, 100%, 29%
HSV	346°, 100%, 59%
XYZ	12.8810, 6.6054, 2.1862
YIQ	48.8400, 78.1650, 42.6850

Conversions

Conversions Part 2

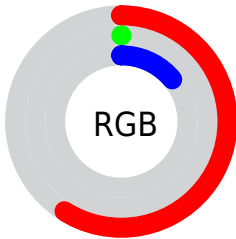
Format	Color
R_{YB}	150, 0, 35
Decimal	9830435
CIE _{Lab}	30.89, 54.71, 26.49
CIE _{LCh}	31, 60.784, 25.834
Yxy	6.6054, 0.5943, 0.3048
Android (android.graphics.Color)	4288020515 (0xFF960023)
YUV	48.8400, -6.8231, 88.7173
Hunter-Lab	25.7010, 44.4852, 12.9473

Details

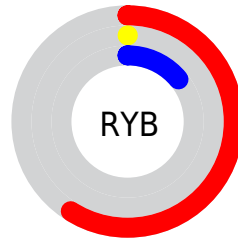
The XYZ color **12.8810, 6.6054, 2.1862** is a dark color, and the websafe version is hex **990033**. A complement of this color would be **14.0023, 23.0509, 19.9378**, and the grayscale version is **2.9042, 3.0555, 3.3274**.

A 20% lighter version of the original color is **30.6578, 19.1785, 9.4831**, and **4.2164, 2.1737, 0.1973** is the 20% darker color. If you saturate the color by 10%, you get **12.8806, 6.6052, 2.1847**, and if you desaturate by 10%, it is **13.2518, 7.0275, 3.2950**.

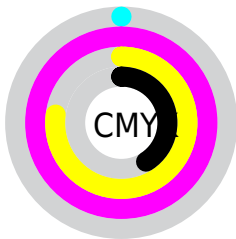
Distribution



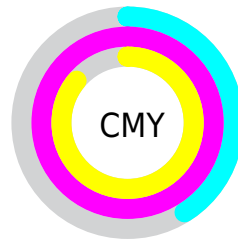
- Red (59%)
- Green (0%)
- Blue (14%)



- Red (59%)
- Yellow (0%)
- Blue (14%)



- Cyan (0%)
- Magenta (100%)
- Yellow (77%)
- Black (41%)





- Cyan (41%)
- Magenta (100%)
- Yellow (86%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 12.8810, 6.6054, 2.1862 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 12.8810, 6.6054, 2.1862 by changing the saturation by 10% instead.

 12.8810, 6.6054,
2.1862

 12.8810, 6.6054,
2.1862


203.8066,
164.3434, 125.2042


 7.4231, 3.2166,
0.6664


 30.6930, 19.1749,
9.5439


 3.7767, 1.2458,
0.0000

 43.7777, 29.1243,
16.2485


 1.5766, 0.0987,
0.0000

 60.1355, 42.0294,
25.5282

 0.3771, 0.0000,
0.0000


 80.1316, 58.2745,
37.8018


 0.0000, 0.0000,
0.0000

 104.1314, 78.2441,
53.4876


 132.5003,


102.3225, 73.0042


 165.6036,
130.8941, 96.7703


 12.8810, 6.6054,
2.1862


 12.8810, 6.6054,
2.1862


 12.8806, 6.6052,
2.1847

 13.2518, 7.0275,
3.2950

 13.8062, 7.7192,
4.7658

 14.6067, 8.7985,
6.6413

 15.6801, 10.3124,
8.9501

 17.0493, 12.3010,
11.7180

■ 18.7349, 14.8000,
14.9688

■ 20.7556, 17.8415,
18.7245

■ 23.1285, 21.4552,
23.0058

■ 25.8696, 25.6684,
27.8321

Harmonies

Analogous

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



13.7915, 6.6054, 8.4362



12.8810, 6.6054, 2.1862



10.0268, 6.6054, 0.2074

Triad

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



12.8810, 6.6054, 2.1862



2.6610, 6.6054, 1.3871



5.8757, 6.6054, 38.5362

Complementary

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



12.8810, 6.6054, 2.1862



14.0023, 23.0509, 19.9378

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.



3.6042, 6.6054, 30.6960



12.8810, 6.6054, 2.1862



2.1540, 6.6054, 6.0768

Square

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



12.8810, 6.6054, 2.1862



4.1193, 6.6054, 0.0000



2.4355, 6.6054, 16.8301



9.0841, 6.6054, 33.9025

Rectangle

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



12.8810, 6.6054, 2.1862



7.7690, 6.6054, 0.0000



2.4355, 6.6054, 16.8301



4.9915, 6.6054, 37.1733

Sweetspot

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



12.8811, 6.6058, 2.1863



36.3955, 31.1325, 32.6165



12.5761, 5.8477, 29.3196



7.7529, 6.4270, 6.6514



71.1368, 74.8414, 81.5023



11.3376, 11.9280, 12.9896

Same Dimension

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



12.8811, 6.6058, 2.1863



22.6743, 11.6339, 3.5530



13.3370, 8.0028, 0.8424



5.8529, 5.8362, 6.3317



10.6939, 5.4826, 1.8692



0.1407, 0.0710, 0.0746

Inverse Universe

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



12.8811, 6.6058, 2.1863



22.6743, 11.6339, 3.5530



11.0818, 13.3552, 30.8475



5.8529, 5.8362, 6.3317



10.6939, 5.4826, 1.8692



0.1407, 0.0710, 0.0746

Previews

White Background



This preview shows how the XYZ color 12.8810, 6.6054, 2.1862 looks on a white background.

Color Contrast Check

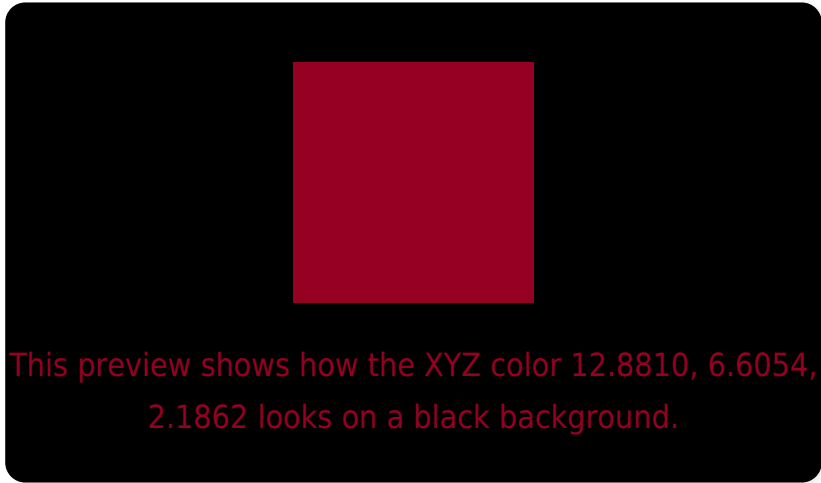
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

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 12.8810, 6.6054, 2.1862

Background



This preview shows how black text looks on a background with the XYZ color 12.8810, 6.6054, 2.1862.



This preview shows how white text looks on a background with the XYZ color 12.8810, 6.6054,

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

12.8810, 6.6054, 2.1862

Protanopia

6.7067, 7.2198, 4.4082

Deuteranopia

7.2231, 7.1422, 1.9752



Tritanopia

12.7923, 6.8432, 0.8764

Trichromacy



Original Color

12.8810, 6.6054, 2.1862

Protanomaly

7.6135, 5.4370, 3.2329

Deuteranomaly

8.2690, 5.6875, 1.8244

Tritanomaly

12.7954, 6.7448, 1.1997

Monochromacy



Original Color

12.8810, 6.6054, 2.1862

Achromatopsia

2.9193, 3.0713, 3.3447

Achromatomaly

4.7824, 3.1403, 2.7369

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8810, 6.6054, 2.1862 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(150, 0, 35)` looks like.

```
.text, #text, p{  
  color:rgb(150, 0, 35)  
}
```

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(150, 0, 35) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(150, 0, 35) }
```

Border

The CSS property to change the border of an element to XYZ 12.8810, 6.6054, 2.1862 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(150, 0, 35) }
```


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

```
.border{ border-color:rgb(150, 0, 35) }
```

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

Here you see how a box with a 4 pixel `rgb(150, 0, 35)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(150, 0, 35); -webkit-box-  
shadow:4px 4px 4px 4px rgb(150, 0, 35);  
box-shadow:4px 4px 4px 4px rgb(150, 0, 35)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.8810, 6.6054, 2.1862 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(150, 0, 35) }
```

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

```
.background{ background-color: rgb(150, 0,  
35) }
```

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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