

Converting Colors

XYZ(12.8113, 6.5332, 3.8176)

Have a look what the booklet for
XYZ(12.8113, 6.5332, 3.8176)
contains.

XYZ(12.8326, 6.5438, 3.8355)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(12.8326, 6.5438,
3.8355)**

Conversions

Conversions Part 1

Format	Color
Hex	940034
RGB	148, 0, 52
RGB Percent	58%, 0%, 20%
CMY	0.4196, 0.9999, 0.7961
CMYK	0.00, 1.00, 0.65, 0.42
HSL	339°, 100%, 29%
HSV	339°, 100%, 58%
XYZ	12.8326, 6.5438, 3.8355
YIQ	50.1800, 71.5160, 47.5480

Conversions

Conversions Part 2

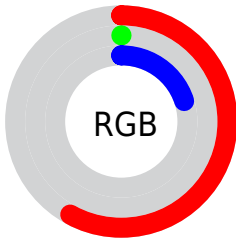
Format	Color
R_{YB}	148, 0, 52
Decimal	9699380
CIE _{Lab}	30.74, 55.02, 15.03
CIE _{LCh}	31, 57.035, 15.282
Yxy	6.5438, 0.5528, 0.2819
Android (android.graphics.Color)	4287889460 (0xFF940034)
YUV	50.1800, 0.8973, 85.7881
Hunter-Lab	25.5809, 44.7778, 9.0169

Details

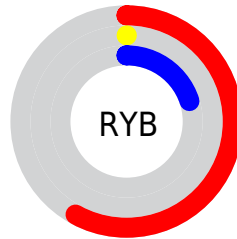
The XYZ color **12.8326, 6.5438, 3.8355** is a dark color, and the websafe version is hex **990033**. A complement of this color would be **12.7022, 22.0248, 14.6523**, and the grayscale version is **3.0465, 3.2052, 3.4905**.

A 20% lighter version of the original color is **30.5996, 19.0568, 13.6208**, and **4.2548, 2.1890, 0.3993** is the 20% darker color. If you saturate the color by 10%, you get **12.8323, 6.5437, 3.8342**, and if you desaturate by 10%, it is **13.2396, 6.9758, 5.1489**.

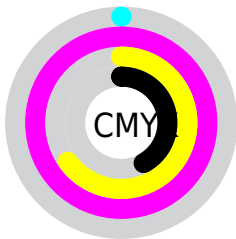
Distribution



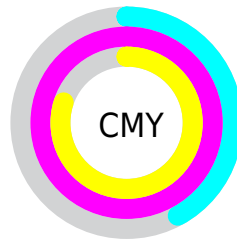
- Red (58%)
- Green (0%)
- Blue (20%)



- Red (58%)
- Yellow (0%)
- Blue (20%)



- Cyan (0%)
- Magenta (100%)
- Yellow (65%)
- Black (42%)





- Cyan (42%)
- Magenta (100%)
- Yellow (80%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 12.8326, 6.5438, 3.8355 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 12.8326, 6.5438, 3.8355 by changing the saturation by 10% instead.


 12.8326, 6.5438,
3.8355


 12.8326, 6.5438,
3.8355


203.5014,
163.8173, 146.3790


 7.3896, 3.1785,
1.5355


 30.6066, 19.0494,
13.6286


 3.7554, 1.2256,
0.2442

 43.6683, 28.9585,
21.9587


 1.5647, 0.0825,
0.0000

 60.0002, 41.8175,
33.1361

 0.3692, 0.0000,
0.0000

 79.9678, 58.0111,
47.5791

 0.0000, 0.0000,
0.0000

 103.9363, 77.9234,
65.7064

 132.2712,

101.9390, 87.9364

165.3378,
130.4422, 114.6878

12.8326, 6.5438,
3.8355

12.8326, 6.5438,
3.8355

12.8323, 6.5437,
3.8342

13.2396, 6.9758,
5.1489

13.8112, 7.6627,
6.7464

14.6069, 8.7196,
8.6592

15.6506, 10.1913,
10.9056

16.9632, 12.1160,
13.5026

■ 18.5630, 14.5275,
16.4655

■ 20.4669, 17.4566,
19.8090

■ 22.6902, 20.9312,
23.5466

■ 25.2473, 24.9774,
27.6912

Harmonies

Analogous

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



12.8544, 6.5438, 11.7005



12.8326, 6.5438, 3.8355



10.7254, 6.5438, 0.8726

Triad

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



12.8326, 6.5438, 3.8355



3.1708, 6.5438, 0.9004



4.9720, 6.5438, 34.0540

Complementary

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



12.8326, 6.5438, 3.8355



12.7022, 22.0248, 14.6523

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.



3.1944, 6.5438, 24.1850



12.8326, 6.5438, 3.8355



2.3822, 6.5438, 3.9316

Square

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



12.8326, 6.5438, 3.8355



4.9288, 6.5438, 0.0000



2.3893, 6.5438, 11.9020



7.7183, 6.5438, 33.9446

Rectangle

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



12.8326, 6.5438, 3.8355



8.7000, 6.5438, 0.0839



2.3893, 6.5438, 11.9020



4.2622, 6.5438, 31.5917

Sweetspot

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



12.8328, 6.5442, 3.8356



35.8918, 30.4585, 34.5721



9.9349, 4.5044, 28.3628



7.8878, 6.4809, 7.3616



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.



12.8328, 6.5442, 3.8356



22.5674, 11.5162, 6.3722



12.4586, 6.7874, 0.6540



5.8799, 5.8470, 6.4738



10.9728, 5.5942, 3.3380



0.1473, 0.0737, 0.1093

Inverse Universe

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



12.8328, 6.5442, 3.8356



22.5674, 11.5162, 6.3722



13.0998, 17.6468, 30.7327



5.8799, 5.8470, 6.4738



10.9728, 5.5942, 3.3380



0.1473, 0.0737, 0.1093

Previews

White Background



This preview shows how the XYZ color 12.8326, 6.5438, 3.8355 looks on a white background.

Color Contrast Check

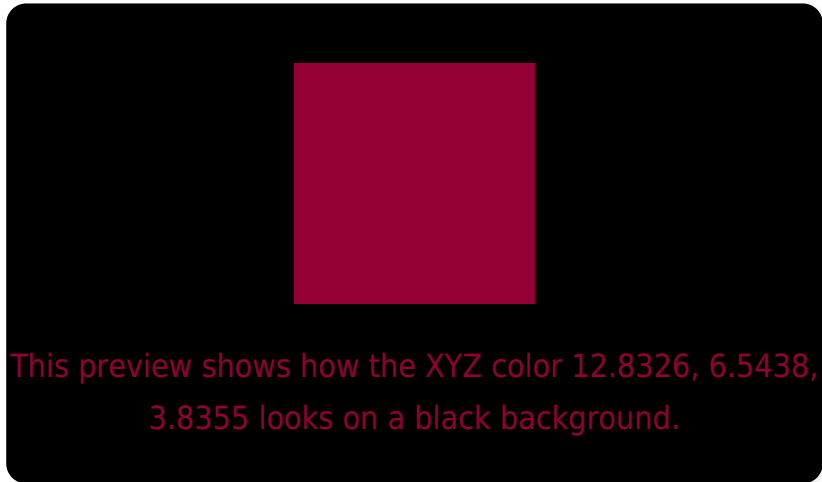
Large Text (above 18pt) WCAG AA ✓ Pass

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

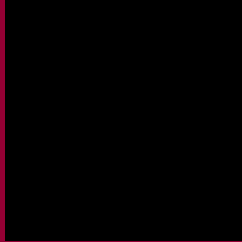
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.8326, 6.5438, 3.8355

Background



This preview shows how black text looks on a background with the XYZ color 12.8326, 6.5438, 3.8355.



This preview shows how white text looks on a background with the XYZ color 12.8326, 6.5438,

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

12.8326, 6.5438, 3.8355

Protanopia

6.8812, 7.1317, 7.8514

Deuteranopia

7.2047, 7.0995, 3.4732



Tritanopia

12.4183, 6.7864, 1.2715

Trichromacy



Original Color

12.8326, 6.5438, 3.8355

Protanomaly

7.6636, 5.4027, 5.9491

Deuteranomaly

8.1926, 5.6121, 3.4478

Tritanomaly

12.4239, 6.5898, 1.9135

Monochromacy



Original Color

12.8326, 6.5438, 3.8355

Achromatopsia

3.0317, 3.1896, 3.4735

Achromatomaly

4.9518, 3.2505, 3.4984

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8326, 6.5438, 3.8355 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(148, 0, 52)` looks like.

```
.text, #text, p{  
    color:rgb(148, 0, 52)  
}
```

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(148, 0, 52) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(148, 0, 52) }
```

Border

The CSS property to change the border of an element to XYZ 12.8326, 6.5438, 3.8355 is called "border". The border property can be set on classes, ids or directly on the HTML element.

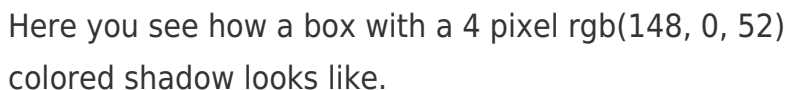
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(148, 0, 52) }
```


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

```
.border{ border-color:rgb(148, 0, 52) }
```

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



Here you see how a box with a 4 pixel `rgb(148, 0, 52)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(148, 0, 52); -webkit-box-shadow:4px 4px 4px 4px rgb(148, 0, 52); box-shadow:4px 4px 4px 4px rgb(148, 0, 52) }
```

Background

The CSS property to change the background color of an element to XYZ 12.8326, 6.5438, 3.8355 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(148, 0, 52) }
```

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

```
.background{ background-color: rgb(148, 0,  
52) }
```

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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