

Converting Colors

XYZ(12.8485, 7.5373, 33.0058)

Have a look what the booklet for
XYZ(12.8485, 7.5373, 33.0058)
contains.

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Color

**XYZ(12.8634, 7.5488,
33.1268)**

Conversions

Conversions Part 1

Format	Color
Hex	67319E
RGB	103, 49, 158
RGB Percent	40%, 19%, 62%
CMY	0.5961, 0.8078, 0.3804
CMYK	0.35, 0.69, 0.00, 0.38
HSL	270°, 53%, 41%
HSV	270°, 69%, 62%
XYZ	12.8634, 7.5488, 33.1268
YIQ	77.5720, -2.8050, 45.3470

Conversions

Conversions Part 2

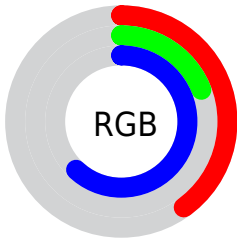
Format	Color
R _{YB}	103, 49, 158
Decimal	6762910
CIE Lab	33.02, 45.40, -49.99
CIE LCh	33, 67.525, 312.243
Yxy	7.5488, 0.2403, 0.1410
Android (android.graphics.Color)	4284952990 (0xFF67319E)
YUV	77.5720, 39.6510, 22.3004
Hunter-Lab	27.4751, 35.4895, -52.2536

Details

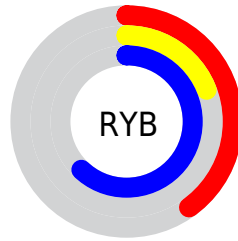
The XYZ color **12.8634, 7.5488, 33.1268** is a dark color, and the websafe version is hex **663399**. A complement of this color would be **18.4900, 27.6185, 7.2622**, and the grayscale version is **7.0897, 7.4589, 8.1227**.

A 20% lighter version of the original color is **30.5726, 20.9969, 65.3922**, and **3.8204, 1.6690, 13.7565** is the 20% darker color. If you saturate the color by 10%, you get **11.4435, 6.0021, 32.9032**, and if you desaturate by 10%, it is **14.6029, 9.6043, 33.4320**.

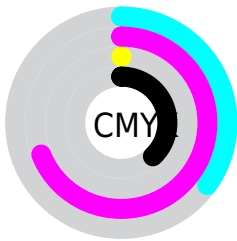
Distribution



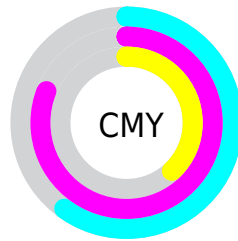
- Red (40%)
- Green (19%)
- Blue (62%)



- Red (40%)
- Yellow (19%)
- Blue (62%)



- Cyan (35%)
- Magenta (69%)
- Yellow (0%)
- Black (38%)



- Cyan (60%)
- Magenta (81%)
- Yellow (38%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.8634, 7.5488, 33.1268 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 12.8634, 7.5488, 33.1268 by changing the saturation by 10% instead.

■ 12.8634, 7.5488,
33.1268

■ 12.8634, 7.5488,
33.1268

■ 203.6957,
172.1490, 330.8702

■ 7.4109, 3.8076,
21.9517

■ 30.6616, 21.0690,
65.6917

■ 3.7690, 1.5665,
13.6234

■ 43.7379, 31.6169,
87.9186

■ 1.5723, 0.3349,
7.7235

■ 60.0863, 45.2024,
114.6666

■ 0.3742, 0.0000,
3.8333

■ 80.0721, 62.2100,
146.3540

■ 0.0000, 0.0000,
1.5343

■ 104.0605, 83.0240,
183.3996

■ 0.0000, 0.0000,
0.2433

■ 132.4170,

■ 0.0000, 0.0000,

108.0290, 226.2218

0.0000

165.5070,
137.6091, 275.2391

■ 12.8634, 7.5488,
33.1268

■ 12.8634, 7.5488,
33.1268

■ 11.4435, 6.0021,
32.9032

■ 14.6029, 9.6043,
33.4320

■ 10.3142, 4.9111,
32.7522

■ 16.6849, 12.2126,
33.8257

■ 9.4206, 4.1693,
32.6561

■ 19.1315, 15.4136,
34.3146

■ 9.3363, 4.1001,
32.6472

■ 21.9622, 19.2433,
34.9047

■ 25.1950, 23.7347,
35.6012

■ 28.8468, 28.9186,
36.4093

■ 32.9334, 34.8235,
37.3337

■ 37.4697, 41.4765,
38.3788

■ 42.4699, 48.9034,
39.5488

Harmonies

Analogous

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



8.7345, 7.5488, 46.4099



12.8634, 7.5488, 33.1268



15.9211, 7.5488, 15.8097

Triad

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



12.8634, 7.5488, 33.1268



9.4837, 7.5488, 0.0000



2.3337, 7.5488, 13.1441

Complementary

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



12.8634, 7.5488, 33.1268



18.4900, 27.6185, 7.2622

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.



2.4157, 7.5488, 3.5565



12.8634, 7.5488, 33.1268



5.8130, 7.5488, 0.0000

Square

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



12.8634, 7.5488, 33.1268



13.5664, 7.5488, 0.8071



3.4731, 7.5488, 0.4859



3.1926, 7.5488, 29.8476

Rectangle

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



12.8634, 7.5488, 33.1268



16.4759, 7.5488, 7.4723



3.4731, 7.5488, 0.4859



2.2630, 7.5488, 9.0146

Sweetspot

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



12.8638, 7.5491, 33.1270



44.2624, 41.0120, 64.3267



12.5222, 13.2895, 34.2530



9.6307, 8.7609, 14.4271



76.7382, 80.7346, 87.9200



13.3056, 13.9985, 15.2444

Same Dimension

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



12.8638, 7.5491, 33.1270



19.5644, 9.6883, 59.5823



21.0158, 11.7516, 33.5085



6.5820, 6.5885, 8.3315



7.5229, 3.3072, 26.1491



0.1833, 0.0843, 0.4698

Inverse Universe

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



17.6976, 10.4653, 14.1835



29.7000, 15.8050, 19.7728



14.1374, 25.3746, 7.0585



6.7657, 6.6992, 7.6171



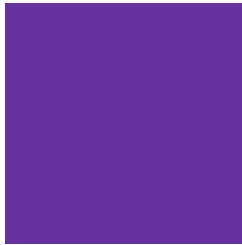
12.4645, 6.2904, 6.6970



0.2442, 0.1210, 0.2322

Previews

White Background



This preview shows how the XYZ color 12.8634, 7.5488, 33.1268 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



This preview shows how the XYZ color 12.8634, 7.5488, 33.1268 looks on a 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 12.8634, 7.5488, 33.1268

Background



This preview shows how black text looks on a background with the XYZ color 12.8634, 7.5488, 33.1268.



This preview shows how white text looks on a background with the XYZ color 12.8634, 7.5488,

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

12.8634, 7.5488, 33.1268

Protanopia

8.8612, 7.5702, 34.2519

Deuteranopia

7.5289, 7.6014, 25.4965



Tritanopia

7.9212, 7.5515, 8.6295

Trichromacy



Original Color

12.8634, 7.5488, 33.1268



Protanomaly

8.9692, 6.7929, 33.6393



Deuteranomaly

8.0794, 6.7249, 28.0663



Tritanomaly

9.1113, 7.1905, 15.0950

Monochromacy



Original Color

12.8634, 7.5488, 33.1268



Achromatopsia

7.2414, 7.6185, 8.2966



Achromatomaly

8.5915, 7.1021, 14.8279

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8634, 7.5488, 33.1268 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(103, 49, 158)` looks like.

```
.text, #text, p{  
    color:rgb(103, 49, 158)  
}
```

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(103, 49, 158) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(103, 49, 158) }
```

Border

The CSS property to change the border of an element to XYZ 12.8634, 7.5488, 33.1268 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(103, 49, 158) }
```


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

```
.border{ border-color:rgb(103, 49, 158) }
```

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

Here you see how a box with a 4 pixel rgb(103, 49, 158) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(103, 49, 158); -webkit-box-  
shadow:4px 4px 4px 4px rgb(103, 49, 158);  
box-shadow:4px 4px 4px 4px rgb(103, 49,  
158) }
```

Background

The CSS property to change the background color of an element to XYZ 12.8634, 7.5488, 33.1268 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(103, 49, 158) }
```

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

```
.background{ background-color: rgb(103, 49,  
158) }
```

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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