

Converting Colors

XYZ(18.7373, 12.5084, 33.9461)

Have a look what the booklet for
XYZ(18.7373, 12.5084, 33.9461)
contains.

XYZ(18.7074, 12.4679, 33.7683)	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(18.7074, 12.4679,
33.7683)**

Conversions

Conversions Part 1

Format	Color
Hex	88499E
RGB	136, 73, 158
RGB Percent	53%, 29%, 62%
CMY	0.4667, 0.7137, 0.3804
CMYK	0.14, 0.54, 0.00, 0.38
HSL	284°, 37%, 45%
HSV	284°, 54%, 62%
XYZ	18.7074, 12.4679, 33.7683
YIQ	101.5270, 10.2630, 39.7910

Conversions

Conversions Part 2

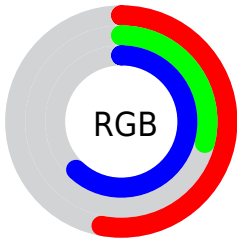
Format	Color
R_{YB}	136, 73, 158
Decimal	8931742
CIE _{Lab}	41.95, 41.06, -35.46
CIE _{LCh}	42, 54.254, 319.183
Yxy	12.4679, 0.2881, 0.1920
Android (android.graphics.Color)	4287121822 (0xFF88499E)
YUV	101.5270, 27.8412, 30.2328
Hunter-Lab	35.3099, 32.7780, -31.9845

Details

The XYZ color **18.7074, 12.4679, 33.7683** is a dark color, and the websafe version is hex **993399**. A complement of this color would be **18.1491, 27.3679, 10.6298**, and the grayscale version is **12.4346, 13.0822, 14.2465**.

A 20% lighter version of the original color is **40.7037, 30.2958, 66.6531**, and **6.5641, 3.5382, 13.9726** is the 20% darker color. If you saturate the color by 10%, you get **17.1467, 10.3134, 33.4349**, and if you desaturate by 10%, it is **20.5581, 15.1639, 34.1913**.

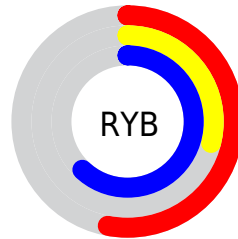
Distribution



Red (53%)

Green (29%)

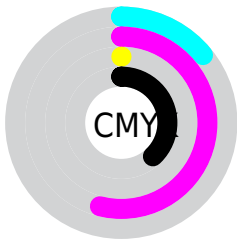
Blue (62%)



Red (53%)

Yellow (29%)

Blue (62%)

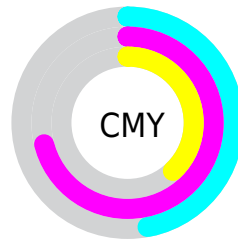


Cyan (14%)

Magenta (54%)

Yellow (0%)

Black (38%)



Cyan (47%)

Magenta (71%)

Yellow (38%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 18.7074, 12.4679, 33.7683 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 18.7074, 12.4679, 33.7683 by changing the saturation by 10% instead.

■ 18.7074, 12.4679,
33.7683

■ 18.7074, 12.4679,
33.7683

237.7979,
207.4788, 333.8352

■ 11.5618, 7.0632,
22.4397

■ 40.7598, 30.3445,
66.7030

■ 6.5161, 3.5016,
13.9790

■ 56.3973, 43.5851,
89.1462

■ 3.2050, 1.3989,
7.9675

■ 75.5961, 60.2065,
116.1313

■ 1.2631, 0.2159,
3.9867

■ 98.7217, 80.5931,
148.0769

■ 0.1553, 0.0000,
1.6180

■ 126.1393,
105.1292, 185.4016

■ 0.0000, 0.0000,
0.3036

158.2143,

■ 0.0000, 0.0000,

134.1992, 228.5238

0.0000

195.3120,
168.1876, 277.8622

■ 18.7074, 12.4679,
33.7683

■ 18.7074, 12.4679,
33.7683

■ 17.1467, 10.3134,
33.4349

■ 20.5581, 15.1639,
34.1913

■ 15.8540, 8.6580,
33.1835

■ 22.7159, 18.4366,
34.7093

■ 14.8059, 7.4552,
33.0066

■ 25.1981, 22.3197,
35.3280

■ 13.9744, 6.6491,
32.8948

■ 28.0205, 26.8442,
36.0526

■ 13.5221, 6.2580,
32.8432

■ 31.1975, 32.0387,
36.8878

■ 34.7427, 37.9303,
37.8381

■ 38.6692, 44.5442,
38.9078

■ 42.9892, 51.9048,
40.1008

■ 47.7144, 60.0350,
41.4211

Harmonies

Analogous

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



14.5730, 12.4679, 47.0052



18.7074, 12.4679, 33.7683



21.1681, 12.4679, 18.1632

Triad

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



18.7074, 12.4679, 33.7683



13.3595, 12.4679, 1.3795



5.9511, 12.4679, 22.2154

Complementary

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



18.7074, 12.4679, 33.7683



18.1491, 27.3679, 10.6298

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.



5.7688, 12.4679, 9.8336



18.7074, 12.4679, 33.7683



9.4899, 12.4679, 1.5694

Square

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



18.7074, 12.4679, 33.7683



17.6482, 12.4679, 2.7747



6.9145, 12.4679, 3.6439



7.4857, 12.4679, 38.1314

Rectangle

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



18.7074, 12.4679, 33.7683



21.2245, 12.4679, 10.3433



6.9145, 12.4679, 3.6439



5.7452, 12.4679, 17.4191

Sweetspot

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



18.7079, 12.4684, 33.7686



49.5353, 46.5683, 65.1212



13.0721, 12.1906, 34.0120



10.9409, 10.1340, 14.6231



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.



18.7079, 12.4684, 33.7686



30.5136, 17.9039, 60.5910



21.0829, 13.8744, 25.6753



6.7365, 6.6681, 8.3387



10.8677, 5.0315, 26.3056



0.2309, 0.1088, 0.4721

Inverse Universe

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



18.5490, 12.8608, 12.3316



30.5989, 18.9357, 15.9634



16.9433, 26.6578, 14.5702



6.7000, 6.6729, 7.2715



11.6264, 5.9551, 2.2836



0.2236, 0.1128, 0.1237

Previews

White Background



This preview shows how the XYZ color 18.7074, 12.4679, 33.7683 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 18.7074, 12.4679, 33.7683 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

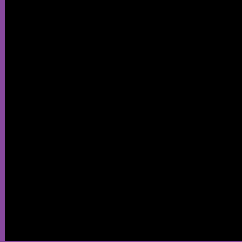
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 18.7074, 12.4679, 33.7683

Background



This preview shows how black text looks on a background with the XYZ color 18.7074, 12.4679, 33.7683.



This preview shows how white text looks on a background with the XYZ color 18.7074, 12.4679,

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

18.7074, 12.4679, 33.7683

Protanopia

14.3165, 12.7745, 44.8912

Deuteranopia

12.8841, 12.6013, 31.8902



Tritanopia

14.4361, 12.5013, 12.7185

Trichromacy



Original Color

18.7074, 12.4679, 33.7683

Protanomaly

14.8666, 11.9842, 40.5594

Deuteranomaly

14.2919, 12.1118, 32.5949

Tritanomaly

15.6290, 12.2642, 18.9963

Monochromacy



Original Color

18.7074, 12.4679, 33.7683

Achromatopsia

12.6291, 13.2868, 14.4694

Achromatomaly

14.1934, 12.4647, 20.0702

CSS Examples

Text

The CSS property to change the color of the text to XYZ 18.7074, 12.4679, 33.7683 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(136, 73, 158)` looks like.

```
.text, #text, p{  
    color:rgb(136, 73, 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(136, 73, 158) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(136, 73, 158) }
```

Border

The CSS property to change the border of an element to XYZ 18.7074, 12.4679, 33.7683 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(136, 73, 158) }
```


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

```
.border{ border-color:rgb(136, 73, 158) }
```

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

Here you see how a box with a 4 pixel rgb(136, 73, 158) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(136, 73, 158); -webkit-box-  
shadow:4px 4px 4px 4px rgb(136, 73, 158);  
box-shadow:4px 4px 4px 4px rgb(136, 73,  
158) }
```

Background

The CSS property to change the background color of an element to XYZ 18.7074, 12.4679, 33.7683 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(136, 73, 158) }
```

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

```
.background{ background-color: rgb(136, 73,  
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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