

Converting Colors

XYZ(12.0677, 5.7748, 20.7286)

Have a look what the booklet for
XYZ(12.0677, 5.7748, 20.7286)
contains.

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Color

**XYZ(12.0647, 5.7695,
20.8998)**

Conversions

Conversions Part 1

Format	Color
Hex	7B0080
RGB	123, 0, 128
RGB Percent	48%, 0%, 50%
CMY	0.5176, 1.0000, 0.4980
CMYK	0.04, 1.00, 0.00, 0.50
HSL	298°, 100%, 25%
HSV	298°, 100%, 50%
XYZ	12.0647, 5.7695, 20.8998
YIQ	51.3690, 32.2200, 65.8840

Conversions

Conversions Part 2

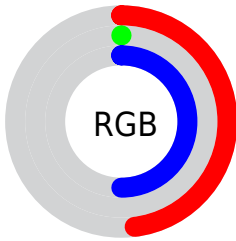
Format	Color
RYB	123, 0, 128
Decimal	8061056
CIELab	28.82, 58.08, -38.09
CIElCh	29, 69.454, 326.743
Yxy	5.7695, 0.3115, 0.1490
Android (android.graphics.Color)	4286251136 (0xFF7B0080)
YUV	51.3690, 37.7791, 62.8204
Hunter-Lab	24.0198, 47.6227, -34.7748

Details

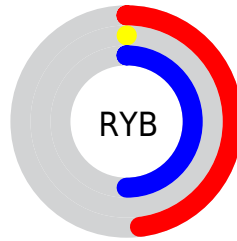
The XYZ color **12.0647, 5.7695, 20.8998** is a dark color, and the websafe version is hex **990099**. A complement of this color would be **7.7819, 15.4707, 2.5763**, and the grayscale version is **3.1450, 3.3087, 3.6032**.

A 20% lighter version of the original color is **29.1841, 17.4264, 45.5415**, and **3.8294, 1.8153, 7.3563** is the 20% darker color. If you saturate the color by 10%, you get **12.0648, 5.7695, 20.8999**, and if you desaturate by 10%, it is **12.2781, 6.0895, 20.9504**.

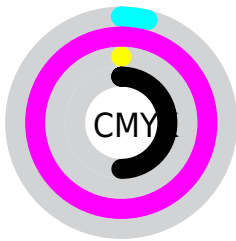
Distribution



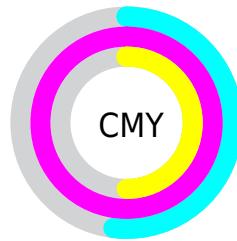
- Red (48%)
- Green (0%)
- Blue (50%)



- Red (48%)
- Yellow (0%)
- Blue (50%)



- Cyan (4%)
- Magenta (100%)
- Yellow (0%)
- Black (50%)



- Cyan (52%)
- Magenta (100%)
- Yellow (50%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.0647, 5.7695, 20.8998 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 12.0647, 5.7695, 20.8998 by changing the saturation by 10% instead.

12.0647, 5.7695,
20.8998

12.0647, 5.7695,
20.8998

198.5943,
157.0078, 269.5090

6.8603, 2.7054,
12.8602

29.2287, 17.4510,
45.7993

3.4204, 0.9800,
7.2028

41.9190, 26.8372,
63.4964

1.3798, 0.0000,
3.5089

57.8353, 39.0996,
85.2497

0.2418, 0.0000,
1.3600

77.3430, 54.6225,
111.4778

0.0000, 0.0000,
0.1102

100.8074, 73.7904,
142.5993

0.0000, 0.0000,
0.0000

128.5938, 96.9876,

179.0326

161.0677,
124.5986, 221.1964

12.0647, 5.7695,
20.8998

12.0647, 5.7695,
20.8998

12.0648, 5.7695,
20.8999

12.2781, 6.0895,
20.9504

12.5694, 6.5653,
21.0269

12.9873, 7.2936,
21.1454

13.5469, 8.3046,
21.3111

14.2610, 9.6241,
21.5281

■ 15.1412, 11.2753,
21.8005

■ 16.1978, 13.2789,
22.1315

■ 17.4405, 15.6540,
22.5244

■ 18.8781, 18.4184,
22.9823

Harmonies

Analogous

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



8.5987, 5.7695, 36.7942



12.0647, 5.7695, 20.8998



13.7608, 5.7695, 7.2942

Triad

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



12.0647, 5.7695, 20.8998



5.8266, 5.7695, 0.0000



1.7164, 5.7695, 17.4014

Complementary

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



12.0647, 5.7695, 20.8998



7.7819, 15.4707, 2.5763

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.



1.4449, 5.7695, 5.3681



12.0647, 5.7695, 20.8998



3.2298, 5.7695, 0.0000

Square

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



12.0647, 5.7695, 20.8998



9.4083, 5.7695, 0.0000



1.8760, 5.7695, 0.8115



2.8379, 5.7695, 33.7555

Rectangle

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



12.0647, 5.7695, 20.8998



13.3202, 5.7695, 2.5569



1.8760, 5.7695, 0.8115



1.5463, 5.7695, 12.5336

Sweetspot

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



12.0649, 5.7698, 20.8999



28.3785, 23.1126, 38.9217



3.9660, 1.6977, 20.5408



6.4829, 5.1049, 9.0620



62.3462, 65.5931, 71.4309



8.4577, 8.8982, 9.6901

Same Dimension

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



12.0649, 5.7698, 20.8999



21.2129, 10.1432, 36.7961



10.0205, 5.0367, 6.3055



4.4821, 4.4041, 5.4271



11.9633, 5.7210, 20.7237



0.0000, 0.0000, 0.0000

Inverse Universe

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



8.9297, 4.6004, 0.5611



15.7090, 8.0942, 0.9203



8.4730, 15.7399, 6.5421



4.3341, 4.3468, 4.5636



8.8543, 4.5614, 0.5568



0.0000, 0.0000, 0.0000

Previews

White Background



This preview shows how the XYZ color 12.0647, 5.7695, 20.8998 looks on a white background.

Color Contrast Check

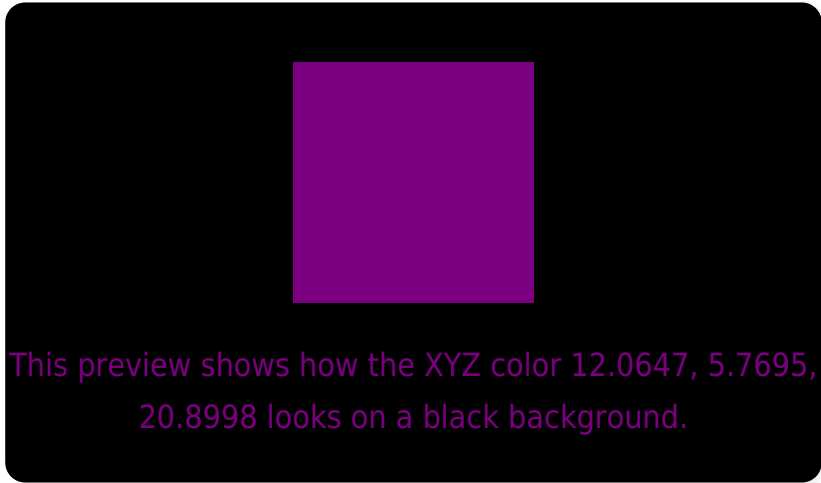
Large Text (above 18pt) WCAG AA ✓ Pass

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

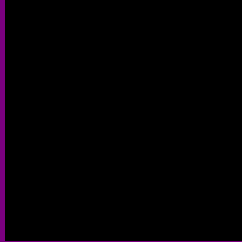
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.0647, 5.7695, 20.8998

Background



This preview shows how black text looks on a background with the XYZ color 12.0647, 5.7695, 20.8998.



This preview shows how white text looks on a background with the XYZ color 12.0647, 5.7695,

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

12.0647, 5.7695, 20.8998

Protanopia

7.2390, 6.3006, 27.6227

Deuteranopia

6.4705, 6.3841, 18.6605



Tritanopia

8.8767, 6.1924, 4.2174

Trichromacy



Original Color

12.0647, 5.7695, 20.8998

Protanomaly

6.6431, 4.2233, 24.8912

Deuteranomaly

6.9360, 4.6130, 19.2637

Tritanomaly

9.4729, 5.4787, 8.3428

Monochromacy



Original Color

12.0647, 5.7695, 20.8998

Achromatopsia

3.1466, 3.3105, 3.6051

Achromatomaly

4.9884, 3.1753, 7.7471

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.0647, 5.7695, 20.8998 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, 0, 128)` looks like.

```
.text, #text, p{  
    color:rgb(123, 0, 128)  
}
```

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, 0, 128) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(123, 0, 128) }
```

Border

The CSS property to change the border of an element to XYZ 12.0647, 5.7695, 20.8998 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, 0, 128) }
```


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

```
.border{ border-color:rgb(123, 0, 128) }
```

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

Here you see how a box with a 4 pixel `rgb(123, 0, 128)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(123, 0, 128); -webkit-box-  
shadow:4px 4px 4px 4px rgb(123, 0, 128);  
box-shadow:4px 4px 4px 4px rgb(123, 0,  
128) }
```

Background

The CSS property to change the background color of an element to XYZ 12.0647, 5.7695, 20.8998 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(123, 0, 128) }
```

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

```
.background{ background-color: rgb(123, 0,  
128) }
```

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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