

Converting Colors

XYZ(20.1491, 12.2268, 40.4352)

Have a look what the booklet for
XYZ(20.1491, 12.2268, 40.4352)
contains.

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Color

**XYZ(20.0950, 12.2208,
40.3295)**

Conversions

Conversions Part 1

Format	Color
Hex	8C40AC
RGB	140, 64, 172
RGB Percent	55%, 25%, 67%
CMY	0.4510, 0.7490, 0.3255
CMYK	0.19, 0.63, 0.00, 0.33
HSL	282°, 46%, 46%
HSV	282°, 63%, 67%
XYZ	20.0950, 12.2208, 40.3295
YIQ	99.0360, 10.6280, 49.7000

Conversions

Conversions Part 2

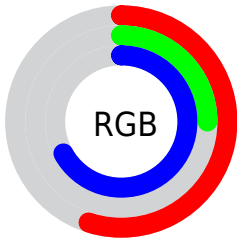
Format	Color
R_{YB}	140, 64, 172
Decimal	9191596
CIE _{Lab}	41.56, 49.74, -44.38
CIE _{LCh}	42, 66.663, 318.258
Yxy	12.2208, 0.2766, 0.1682
Android (android.graphics.Color)	4287381676 (0xFF8C40AC)
YUV	99.0360, 35.9713, 35.9254
Hunter-Lab	34.9583, 41.4299, -43.9290

Details

The XYZ color **20.0950, 12.2208, 40.3295** is a dark color, and the websafe version is hex **993399**. A complement of this color would be **20.5022, 32.3623, 10.0169**, and the grayscale version is **11.7797, 12.3932, 13.4962**.

A 20% lighter version of the original color is **43.0139, 29.8280, 76.8891**, and **7.2109, 3.3972, 17.7284** is the 20% darker color. If you saturate the color by 10%, you get **18.4316, 10.1389, 40.0155**, and if you desaturate by 10%, it is **22.0983, 14.9223, 40.7456**.

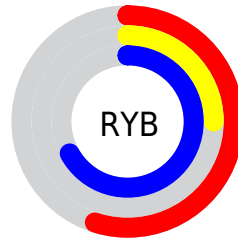
Distribution



Red (55%)

Green (25%)

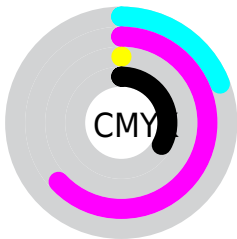
Blue (67%)



Red (55%)

Yellow (25%)

Blue (67%)

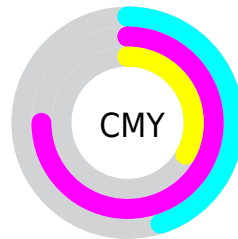


Cyan (19%)

Magenta (63%)

Yellow (0%)

Black (33%)



Cyan (45%)

Magenta (75%)

Yellow (33%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 20.0950, 12.2208, 40.3295 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 20.0950, 12.2208, 40.3295 by changing the saturation by 10% instead.

■ 20.0950, 12.2208,
40.3295

■ 20.0950, 12.2208,
40.3295

245.2527,
205.8616, 363.1037

■ 12.5728, 6.8942,
27.4798

■ 43.0791, 29.8966,
76.9076

■ 7.2100, 3.3960,
17.6983

■ 59.2718, 43.0147,
101.4730

■ 3.6413, 1.3418,
10.5664

■ 79.0852, 59.4986,
130.7808

■ 1.5013, 0.1732,
5.6656

■ 102.8849, 79.7330,
165.2495

■ 0.3267, 0.0000,
2.5773

■ 131.0361,
104.1020, 205.2976

■ 0.0000, 0.0000,
0.8807

163.9043,

■ 0.0000, 0.0000,

132.9902, 251.3436

0.0000

201.8547,
166.7820, 303.8061

■ 20.0950, 12.2208,
40.3295

■ 20.0950, 12.2208,
40.3295

■ 18.4316, 10.1389,
40.0155

■ 22.0983, 14.9223,
40.7456

■ 17.0774, 8.6179,
39.7933

■ 24.4654, 18.2920,
41.2712

■ 15.9985, 7.5898,
39.6517

■ 27.2195, 22.3754,
41.9142

■ 15.3369, 7.0463,
39.5817

■ 30.3817, 27.2133,
42.6814

■ 33.9710, 32.8435,
43.5789

■ 38.0055, 39.3013,
44.6128

■ 42.5020, 46.6196,
45.7884

■ 47.4765, 54.8299,
47.1109

■ 52.9443, 63.9616,
48.5853

Harmonies

Analogous

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



14.8025, 12.2208, 58.4629



20.0950, 12.2208, 40.3295



23.4042, 12.2208, 19.5423

Triad

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



20.0950, 12.2208, 40.3295



13.6267, 12.2208, 0.4472



4.8002, 12.2208, 23.5985

Complementary

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



20.0950, 12.2208, 40.3295



20.5022, 32.3623, 10.0169

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.



4.6490, 12.2208, 8.5619



20.0950, 12.2208, 40.3295



8.9223, 12.2208, 0.5843

Square

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



20.0950, 12.2208, 40.3295



19.0299, 12.2208, 1.6517



5.9367, 12.2208, 2.2481



6.4309, 12.2208, 45.0138

Rectangle

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



20.0950, 12.2208, 40.3295



23.5622, 12.2208, 9.8147



5.9367, 12.2208, 2.2481



4.5956, 12.2208, 17.5411

Sweetspot

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



20.0955, 12.2213, 40.3298



57.2729, 52.7253, 77.9642



13.7806, 12.5080, 40.7179



12.0685, 10.8693, 16.8496



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123

Same Dimension

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



20.0955, 12.2213, 40.3298



32.5027, 17.3017, 72.4323



24.3843, 14.6528, 30.5668



8.1025, 8.0271, 10.0750



11.4701, 5.2729, 29.4577



0.3704, 0.1731, 0.8219

Inverse Universe

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



20.9583, 13.2824, 12.5259



34.8834, 19.7892, 15.6075



18.5309, 31.2608, 13.7776



8.0992, 8.0529, 8.8334



13.1262, 6.7130, 3.0441



0.3895, 0.1965, 0.2127

Previews

White Background



This preview shows how the XYZ color 20.0950, 12.2208, 40.3295 looks on a white background.

Color Contrast Check

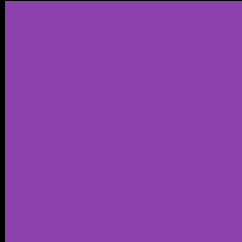
Large Text (above 18pt) WCAG AA ✓ Pass

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 20.0950, 12.2208, 40.3295 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

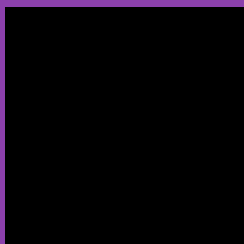
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 20.0950, 12.2208, 40.3295

Background



This preview shows how black text looks on a background with the XYZ color 20.0950, 12.2208, 40.3295.



This preview shows how white text looks on a background with the XYZ color 20.0950, 12.2208,

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

20.0950, 12.2208, 40.3295

Protanopia

14.7529, 12.4487, 57.5024

Deuteranopia

12.6695, 12.3704, 37.3173



Tritanopia

14.3307, 12.2137, 12.1919

Trichromacy



Original Color

20.0950, 12.2208, 40.3295



Protanomaly

13.9395, 10.8060, 50.6413



Deuteranomaly

14.0518, 11.3675, 38.4993



Tritanomaly

15.8246, 11.9026, 19.8757

Monochromacy



Original Color

20.0950, 12.2208, 40.3295



Achromatopsia

11.8596, 12.4772, 13.5877



Achromatomaly

14.0331, 11.7393, 21.2650

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.0950, 12.2208, 40.3295 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(140, 64, 172)` looks like.

```
.text, #text, p{  
    color:rgb(140, 64, 172)  
}
```

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(140, 64, 172) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(140, 64, 172) }
```

Border

The CSS property to change the border of an element to XYZ 20.0950, 12.2208, 40.3295 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(140, 64, 172) }
```


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

```
.border{ border-color:rgb(140, 64, 172) }
```

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

Here you see how a box with a 4 pixel `rgb(140, 64, 172)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(140, 64, 172); -webkit-box-  
shadow:4px 4px 4px 4px rgb(140, 64, 172);  
box-shadow:4px 4px 4px 4px rgb(140, 64,  
172) }
```

Background

The CSS property to change the background color of an element to XYZ 20.0950, 12.2208, 40.3295 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(140, 64, 172) }
```

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

```
.background{ background-color: rgb(140, 64,  
172) }
```

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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