

Converting Colors

XYZ(20.7495, 12.3253, 31.9485)

Have a look what the booklet for
XYZ(20.7495, 12.3253, 31.9485)
contains.

XYZ(20.7231, 12.3310, 31.8597)	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(20.7231, 12.3310,
31.8597)**

Conversions

Conversions Part 1

Format	Color
Hex	9A3B9A
RGB	154, 59, 154
RGB Percent	60%, 23%, 60%
CMY	0.3961, 0.7686, 0.3961
CMYK	0.00, 0.62, 0.00, 0.40
HSL	300°, 45%, 42%
HSV	300°, 62%, 60%
XYZ	20.7231, 12.3310, 31.8597
YIQ	98.2350, 26.1250, 49.6850

Conversions

Conversions Part 2

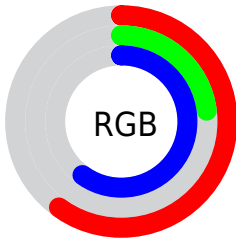
Format	Color
RYB	154, 59, 154
Decimal	10107802
CIELab	41.74, 52.07, -33.23
CIELCh	42, 61.769, 327.454
Yxy	12.3310, 0.3192, 0.1900
Android (android.graphics.Color)	4288297882 (0xFF9A3B9A)
YUV	98.2350, 27.4921, 48.9059
Hunter-Lab	35.1155, 43.8880, -29.2119

Details

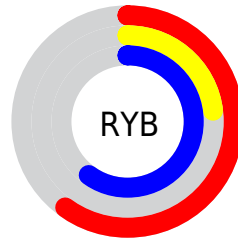
The XYZ color **20.7231, 12.3310, 31.8597** is a dark color, and the websafe version is hex **993399**. A complement of this color would be **14.1492, 24.3573, 8.0940**, and the grayscale version is **11.5975, 12.2015, 13.2874**.

A 20% lighter version of the original color is **44.1668, 30.0407, 63.7922**, and **7.6538, 3.6686, 12.8751** is the 20% darker color. If you saturate the color by 10%, you get **20.0454, 10.9752, 31.6338**, and if you desaturate by 10%, it is **21.6352, 14.1549, 32.1639**.

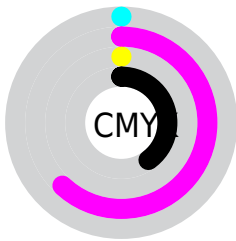
Distribution



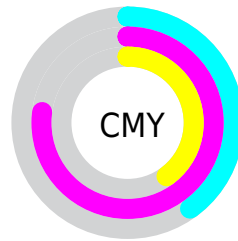
- Red (60%)
- Green (23%)
- Blue (60%)



- Red (60%)
- Yellow (23%)
- Blue (60%)



- Cyan (0%)
- Magenta (62%)
- Yellow (0%)
- Black (40%)



- Cyan (40%)
- Magenta (77%)
- Yellow (40%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 20.7231, 12.3310, 31.8597 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 20.7231, 12.3310, 31.8597 by changing the saturation by 10% instead.

■ 20.7231, 12.3310,
31.8597

■ 20.7231, 12.3310,
31.8597

248.5629,
206.5844, 324.9527

■ 13.0331, 6.9695,
20.9904

■ 44.1210, 30.0965,
63.6864

■ 7.5285, 3.4430,
12.9258

■ 60.5596, 43.2694,
85.4810

■ 3.8440, 1.3672,
7.2474

■ 80.6450, 59.8148,
111.7543

■ 1.6143, 0.1923,
3.5365

■ 104.7427, 80.1172,
142.9251

■ 0.4017, 0.0000,
1.3747

■ 133.2180,
104.5610, 179.4118

■ 0.0000, 0.0000,
0.1218

166.4362,

■ 0.0000, 0.0000,

133.5305, 221.6329

0.0000

204.7627,
167.4102, 270.0070

■ 20.7231, 12.3310,
31.8597

■ 20.7231, 12.3310,
31.8597

■ 20.0454, 10.9752,
31.6338

■ 21.6352, 14.1549,
32.1639

■ 19.5795, 10.0434,
31.4785

■ 22.7991, 16.4826,
32.5519

■ 19.3008, 9.4861,
31.3855

■ 24.2318, 19.3480,
33.0295

■ 19.1593, 9.2032,
31.3384

■ 25.9488, 22.7820,
33.6019

■ 27.9642, 26.8128,
34.2738

■ 30.2913, 31.4669,
35.0495

■ 32.9424, 36.7692,
35.9333

■ 35.9294, 42.7431,
36.9290

■ 39.2634, 49.4110,
38.0404

Harmonies

Analogous

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



16.2216, 12.3310, 50.0578



20.7231, 12.3310, 31.8597



22.7789, 12.3310, 14.5674

Triad

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



20.7231, 12.3310, 31.8597



12.1122, 12.3310, 0.7168



5.5566, 12.3310, 28.5598

Complementary

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



20.7231, 12.3310, 31.8597



14.1492, 24.3573, 8.0940

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.



4.9851, 12.3310, 12.3465



20.7231, 12.3310, 31.8597



8.1397, 12.3310, 1.2185

Square

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



20.7231, 12.3310, 31.8597



17.0698, 12.3310, 1.4567



5.7956, 12.3310, 3.9696



7.6244, 12.3310, 47.4357

Rectangle

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



20.7231, 12.3310, 31.8597



22.1720, 12.3310, 7.2385



5.7956, 12.3310, 3.9696



5.2108, 12.3310, 22.4046

Sweetspot

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



20.7236, 12.3316, 31.8600



47.9324, 42.9746, 61.3047



9.2008, 6.3914, 31.3210



10.6407, 9.3099, 13.8065



74.8435, 78.7412, 85.7492



12.6291, 13.2868, 14.4694

Same Dimension

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



20.7236, 12.3316, 31.8600



36.0489, 19.2079, 57.3430



17.5185, 11.0495, 14.9825



6.4612, 6.3237, 7.8090



15.6094, 7.4980, 25.5318



0.2334, 0.1121, 0.3817

Inverse Universe

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



20.7236, 12.3316, 31.8600



36.0489, 19.2079, 57.3430



15.9874, 25.0926, 17.7738



6.4612, 6.3237, 7.8090



15.6094, 7.4980, 25.5318



0.2334, 0.1121, 0.3817

Previews

White Background



This preview shows how the XYZ color 20.7231, 12.3310, 31.8597 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 20.7231, 12.3310, 31.8597 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

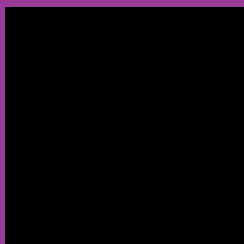
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 20.7231, 12.3310, 31.8597

Background



This preview shows how black text looks on a background with the XYZ color 20.7231, 12.3310, 31.8597.



This preview shows how white text looks on a background with the XYZ color 20.7231, 12.3310,

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

20.7231, 12.3310, 31.8597

Protanopia

14.5266, 12.6496, 49.2529

Deuteranopia

12.8702, 12.6500, 29.3671



Tritanopia

16.2897, 12.3588, 10.1213

Trichromacy



Original Color

20.7231, 12.3310, 31.8597

Protanomaly

14.8602, 11.3473, 42.4813

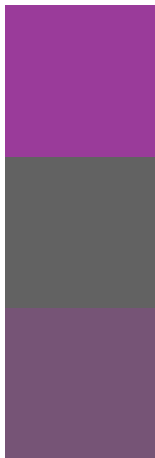
Deuteranomaly

14.6192, 11.6068, 30.3240

Tritanomaly

17.5263, 12.1501, 16.1733

Monochromacy



Original Color

20.7231, 12.3310, 31.8597

Achromatopsia

11.6093, 12.2139, 13.3009

Achromatomaly

13.9116, 11.5002, 18.6261

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.7231, 12.3310, 31.8597 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(154, 59, 154)` looks like.

```
.text, #text, p{  
    color:rgb(154, 59, 154)  
}
```

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(154, 59, 154) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(154, 59, 154) }
```

Border

The CSS property to change the border of an element to XYZ 20.7231, 12.3310, 31.8597 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(154, 59, 154) }
```


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

```
.border{ border-color:rgb(154, 59, 154) }
```

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

Here you see how a box with a 4 pixel rgb(154, 59, 154) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(154, 59, 154); -webkit-box-  
shadow:4px 4px 4px 4px rgb(154, 59, 154);  
box-shadow:4px 4px 4px 4px rgb(154, 59,  
154) }
```

Background

The CSS property to change the background color of an element to XYZ 20.7231, 12.3310, 31.8597 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(154, 59, 154) }
```

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

```
.background{ background-color: rgb(154, 59,  
154) }
```

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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