

Converting Colors

XYZ(12.9889, 10.3255, 20.1656)

Have a look what the booklet for
XYZ(12.9889, 10.3255, 20.1656)
contains.

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Color

**XYZ(12.9816, 10.3236,
20.0473)**

Conversions

Conversions Part 1

Format	Color
Hex	704E7B
RGB	112, 78, 123
RGB Percent	44%, 31%, 48%
CMY	0.5608, 0.6941, 0.5176
CMYK	0.09, 0.37, 0.00, 0.52
HSL	285°, 22%, 39%
HSV	285°, 37%, 48%
XYZ	12.9816, 10.3236, 20.0473
YIQ	93.2960, 5.8190, 21.2030

Conversions

Conversions Part 2

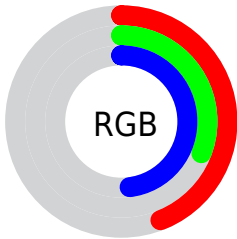
Format	Color
R_{YB}	112, 78, 123
Decimal	7360123
CIE _{Lab}	38.42, 22.94, -19.96
CIE _{LCh}	38, 30.404, 318.975
Yxy	10.3236, 0.2994, 0.2381
Android (android.graphics.Color)	4285550203 (0xFF704E7B)
YUV	93.2960, 14.6441, 16.4034
Hunter-Lab	32.1304, 15.8911, -14.5019

Details

The XYZ color **12.9816, 10.3236, 20.0473** is a dark color, and the websafe version is hex **663366**. A complement of this color would be **12.5783, 16.8401, 9.7958**, and the grayscale version is **10.4398, 10.9835, 11.9610**.

A 20% lighter version of the original color is **30.8655, 26.4654, 44.5558**, and **3.8024, 2.5842, 6.7770** is the 20% darker color. If you saturate the color by 10%, you get **11.8120, 8.5427, 19.7654**, and if you desaturate by 10%, it is **14.3281, 12.4389, 20.3848**.

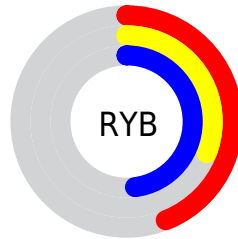
Distribution



Red (44%)

Green (31%)

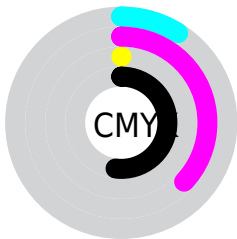
Blue (48%)



Red (44%)

Yellow (31%)

Blue (48%)

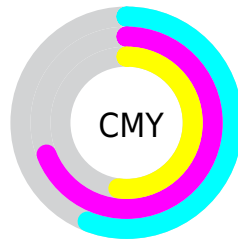


Cyan (9%)

Magenta (37%)

Yellow (0%)

Black (52%)



Cyan (56%)

Magenta (69%)

Yellow (52%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9816, 10.3236, 20.0473 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 12.9816, 10.3236, 20.0473 by changing the saturation by 10% instead.

■ 12.9816, 10.3236,
20.0473

■ 12.9816, 10.3236,
20.0473

204.4397,
192.9663, 264.7838

■ 7.4928, 5.6140,
12.2450

■ 30.8723, 26.4024,
44.3565

■ 3.8212, 2.6118,
6.7862

■ 44.0049, 38.5404,
61.7005

■ 1.6015, 0.9326,
3.2523

■ 60.4162, 53.9234,
83.0621

■ 0.3934, 0.0000,
1.2249

■ 80.4715, 72.9357,
108.8599

■ 0.0000, 0.0000,
0.0000

■ 104.5361, 95.9618,
139.5124

132.9754,

123.3860, 175.4382

166.1549,
155.5927, 217.0558

■ 12.9816, 10.3236,
20.0473

■ 12.9816, 10.3236,
20.0473

■ 11.8120, 8.5427,
19.7654

■ 14.3281, 12.4389,
20.3848

■ 10.8091, 7.0765,
19.5352

■ 15.8592, 14.9043,
20.7800

■ 9.9629, 5.9055,
19.3538

■ 17.5829, 17.7359,
21.2357

■ 9.2623, 5.0070,
19.2173

■ 19.5070, 20.9484,
21.7543

■ 8.6942, 4.3553,
19.1214

■ 21.6383, 24.5560,
22.3383

■ 8.2328, 3.8989,
19.0577

■ 23.9837, 28.5717,
22.9898

■ 8.0826, 3.7537,
19.0376

■ 26.5495, 33.0083,
23.7109

■ 29.3419, 37.8779,
24.5037

■ 32.3667, 43.1919,
25.3700

Harmonies

Analogous

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



11.1060, 10.3236, 25.0649



12.9816, 10.3236, 20.0473



14.0542, 10.3236, 13.4625

Triad

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



12.9816, 10.3236, 20.0473



10.5602, 10.3236, 3.5645



6.6282, 10.3236, 15.1815

Complementary

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



12.9816, 10.3236, 20.0473



12.5783, 16.8401, 9.7958

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.



6.5233, 10.3236, 9.2778



12.9816, 10.3236, 20.0473



8.6231, 10.3236, 3.7500

Square

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



12.9816, 10.3236, 20.0473



12.5359, 10.3236, 4.8477



7.2060, 10.3236, 5.4854



7.5148, 10.3236, 21.6646

Rectangle

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



12.9816, 10.3236, 20.0473



14.0844, 10.3236, 9.6205



7.2060, 10.3236, 5.4854



6.5053, 10.3236, 13.0332

Sweetspot

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



12.9819, 10.3240, 20.0475



29.9957, 29.3003, 37.6312



10.3107, 10.2367, 20.1715



6.9856, 6.7711, 8.8419



60.6688, 63.8283, 69.5090



7.9400, 8.3535, 9.0970

Same Dimension

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



12.9819, 10.3240, 20.0475



21.4473, 15.7399, 35.4643



13.8038, 10.8245, 16.6184



4.0633, 4.0305, 5.0070



8.3563, 3.8806, 19.6939



39.0622, 18.0993, 93.9045

Inverse Universe

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



12.6963, 10.3815, 10.7864



20.9473, 15.9137, 15.9447



12.0389, 16.5113, 12.0593



4.0348, 4.0296, 4.3808



8.6915, 4.4528, 1.6664



41.1697, 21.1242, 6.4235

Previews

White Background



This preview shows how the XYZ color 12.9816, 10.3236, 20.0473 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 12.9816, 10.3236, 20.0473 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 12.9816, 10.3236, 20.0473

Background



This preview shows how black text looks on a background with the XYZ color 12.9816, 10.3236, 20.0473.



This preview shows how white text looks on a background with the XYZ color 12.9816, 10.3236,

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

12.9816, 10.3236, 20.0473

Protanopia

10.7978, 10.3885, 23.2659

Deuteranopia

10.5908, 10.3642, 19.5315



Tritanopia

11.2002, 10.3781, 11.3104

Trichromacy



Original Color

12.9816, 10.3236, 20.0473

Protanomaly

11.4274, 10.2556, 22.1461

Deuteranomaly

11.3774, 10.2818, 19.7973

Tritanomaly

11.7721, 10.2651, 14.1929

Monochromacy



Original Color

12.9816, 10.3236, 20.0473

Achromatopsia

10.4043, 10.9462, 11.9204

Achromatomaly

11.2439, 10.6882, 14.5671

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9816, 10.3236, 20.0473 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(112, 78, 123)` looks like.

```
.text, #text, p{  
    color:rgb(112, 78, 123)  
}
```

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(112, 78, 123) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(112, 78, 123) }
```

Border

The CSS property to change the border of an element to XYZ 12.9816, 10.3236, 20.0473 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(112, 78, 123) }
```


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

```
.border{ border-color:rgb(112, 78, 123) }
```

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

Here you see how a box with a 4 pixel `rgb(112, 78, 123)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(112, 78, 123); -webkit-box-  
shadow:4px 4px 4px 4px rgb(112, 78, 123);  
box-shadow:4px 4px 4px 4px rgb(112, 78,  
123) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9816, 10.3236, 20.0473 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(112, 78, 123) }
```

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

```
.background{ background-color: rgb(112, 78,  
123) }
```

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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