

Converting Colors

XYZ(12.8952, 7.5606, 32.9522)

Have a look what the booklet for
XYZ(12.8952, 7.5606, 32.9522)
contains.

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Color

**XYZ(12.9788, 7.6083,
33.1322)**

Conversions

Conversions Part 1

Format	Color
Hex	68319E
RGB	104, 49, 158
RGB Percent	41%, 19%, 62%
CMY	0.5921, 0.8078, 0.3804
CMYK	0.34, 0.69, 0.00, 0.38
HSL	270°, 53%, 41%
HSV	270°, 69%, 62%
XYZ	12.9788, 7.6083, 33.1322
YIQ	77.8710, -2.2090, 45.5590

Conversions

Conversions Part 2

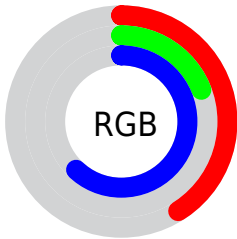
Format	Color
RYB	104, 49, 158
Decimal	6828446
CIELab	33.15, 45.61, -49.77
CIELCh	33, 67.509, 312.498
Yxy	7.6083, 0.2416, 0.1416
Android (android.graphics.Color)	4285018526 (0xFF68319E)
YUV	77.8710, 39.5036, 22.9151
Hunter-Lab	27.5831, 35.7198, -51.9095

Details

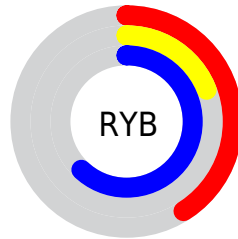
The XYZ color **12.9788, 7.6083, 33.1322** is a dark color, and the websafe version is hex **663399**. A complement of this color would be **18.3747, 27.5591, 7.2568**, and the grayscale version is **7.1458, 7.5179, 8.1870**.

A 20% lighter version of the original color is **30.7702, 21.0987, 65.4015**, and **3.9169, 1.7187, 13.7610** is the 20% darker color. If you saturate the color by 10%, you get **11.5634, 6.0639, 32.9088**, and if you desaturate by 10%, it is **14.7109, 9.6600, 33.4371**.

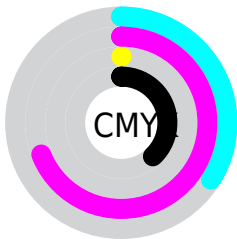
Distribution



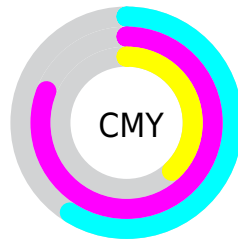
- Red (41%)
- Green (19%)
- Blue (62%)



- Red (41%)
- Yellow (19%)
- Blue (62%)



- Cyan (34%)
- Magenta (69%)
- Yellow (0%)
- Black (38%)



- Cyan (59%)
- Magenta (81%)
- Yellow (38%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9788, 7.6083, 33.1322 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 12.9788, 7.6083, 33.1322 by changing the saturation by 10% instead.

■ 12.9788, 7.6083,
33.1322

■ 12.9788, 7.6083,
33.1322

204.4221,
172.6266, 330.8953

■ 7.4908, 3.8453,
21.9558

■ 30.8673, 21.1869,
65.7003

■ 3.8200, 1.5874,
13.6264

■ 43.9986, 31.7713,
87.9290

■ 1.6008, 0.3491,
7.7255

■ 60.4084, 45.3984,
114.6789

■ 0.3929, 0.0000,
3.8346

■ 80.4620, 62.4524,
146.3686

■ 0.0000, 0.0000,
1.5350

■ 104.5249, 83.3179,
183.4165

■ 0.0000, 0.0000,
0.2438

■ 132.9622,

■ 0.0000, 0.0000,

108.3791, 226.2412

0.0000

166.1395,
138.0206, 275.2613

■ 12.9788, 7.6083,
33.1322

■ 12.9788, 7.6083,
33.1322

■ 11.5634, 6.0639,
32.9088

■ 14.7109, 9.6600,
33.4371

■ 10.4358, 4.9738,
32.7579

■ 16.7827, 12.2630,
33.8303

■ 9.5414, 4.2316,
32.6618

■ 19.2159, 15.4571,
34.3186

■ 9.4569, 4.1623,
32.6528

■ 22.0299, 19.2782,
34.9078

■ 25.2427, 23.7593,
35.6034

■ 28.8710, 28.9311,
36.4105

■ 32.9305, 34.8220,
37.3336

■ 37.4361, 41.4593,
38.3772

■ 42.4018, 48.8683,
39.5456

Harmonies

Analogous

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



8.8329, 7.6083, 46.5412



12.9788, 7.6083, 33.1322



16.0305, 7.6083, 15.7782

Triad

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



12.9788, 7.6083, 33.1322



9.5159, 7.6083, 0.0000



2.3644, 7.6083, 13.3494

Complementary

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



12.9788, 7.6083, 33.1322



18.3747, 27.5591, 7.2568

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.



2.4393, 7.6083, 3.6428



12.9788, 7.6083, 33.1322



5.8363, 7.6083, 0.0000

Square

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



12.9788, 7.6083, 33.1322



13.6193, 7.6083, 0.8078



3.4946, 7.6083, 0.5164



3.2384, 7.6083, 30.1471

Rectangle

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



12.9788, 7.6083, 33.1322



16.5693, 7.6083, 7.4509



3.4946, 7.6083, 0.5164



2.2905, 7.6083, 9.1773

Sweetspot

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



12.9792, 7.6086, 33.1324



44.3583, 41.0614, 64.3312



12.3385, 12.9220, 34.1918



9.6545, 8.7731, 14.4282



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.



12.9792, 7.6086, 33.1324



19.7844, 9.8017, 59.5926



21.3705, 11.9345, 33.5251



6.5877, 6.5914, 8.3317



7.6196, 3.3570, 26.1536



0.1850, 0.0852, 0.4699

Inverse Universe

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



17.6471, 10.4451, 13.9176



29.6037, 15.7665, 19.2657



14.0480, 25.3286, 7.0544



6.7632, 6.6982, 7.6040



12.4222, 6.2734, 6.4742



0.2434, 0.1207, 0.2281

Previews

White Background



This preview shows how the XYZ color 12.9788, 7.6083, 33.1322 looks on a white background.

Color Contrast Check

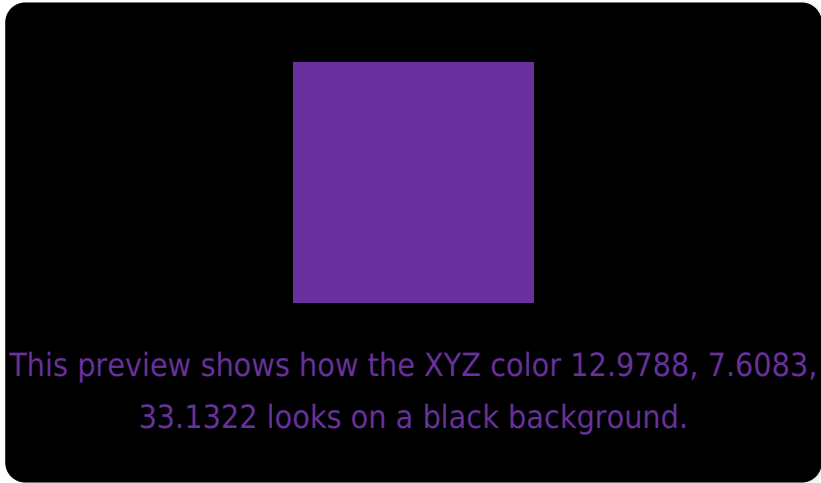
Large Text (above 18pt) WCAG AA ✓ Pass

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

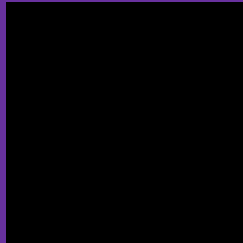
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.9788, 7.6083, 33.1322

Background



This preview shows how black text looks on a background with the XYZ color 12.9788, 7.6083, 33.1322.



This preview shows how white text looks on a background with the XYZ color 12.9788, 7.6083,

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

12.9788, 7.6083, 33.1322

Protanopia

8.9296, 7.7069, 34.2747

Deuteranopia

7.6023, 7.6308, 25.8831



Tritanopia

8.0166, 7.6006, 8.6340

Trichromacy



Original Color

12.9788, 7.6083, 33.1322



Protanomaly

9.0056, 6.8117, 33.6410



Deuteranomaly

8.1939, 6.7749, 28.4796



Tritanomaly

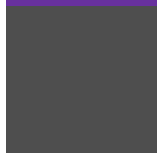
9.2132, 7.2430, 15.0998

Monochromacy



Original Color

12.9788, 7.6083, 33.1322



Achromatopsia

7.2414, 7.6185, 8.2966



Achromatomaly

8.5915, 7.1021, 14.8279

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9788, 7.6083, 33.1322 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(104, 49, 158)` looks like.

```
.text, #text, p{  
    color:rgb(104, 49, 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(104, 49, 158) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(104, 49, 158) }
```

Border

The CSS property to change the border of an element to XYZ 12.9788, 7.6083, 33.1322 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(104, 49, 158) }
```


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

```
.border{ border-color:rgb(104, 49, 158) }
```

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

Here you see how a box with a 4 pixel rgb(104, 49, 158) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(104, 49, 158); -webkit-box-  
shadow:4px 4px 4px 4px rgb(104, 49, 158);  
box-shadow:4px 4px 4px 4px rgb(104, 49,  
158) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9788, 7.6083, 33.1322 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(104, 49, 158) }
```

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

```
.background{ background-color: rgb(104, 49,  
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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