

Converting Colors

XYZ(12.6773, 9.9564, 31.3910)

Have a look what the booklet for
XYZ(12.6773, 9.9564, 31.3910)
contains.

XYZ(12.6906, 9.9223, 31.3833)	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(12.6906, 9.9223,
31.3833)**

Conversions

Conversions Part 1

Format	Color
Hex	5A4E99
RGB	90, 78, 153
RGB Percent	35%, 31%, 60%
CMY	0.6470, 0.6941, 0.4000
CMYK	0.41, 0.49, 0.00, 0.40
HSL	250°, 32%, 45%
HSV	250°, 49%, 60%
XYZ	12.6906, 9.9223, 31.3833
YIQ	90.1380, -16.9230, 25.8690

Conversions

Conversions Part 2

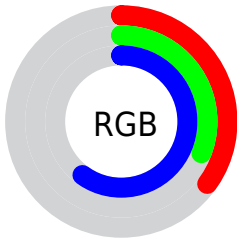
Format	Color
R_{YB}	90, 78, 153
Decimal	5918361
CIE _{Lab}	37.70, 24.08, -39.52
CIE _{LCh}	38, 46.279, 301.352
Yxy	9.9223, 0.2350, 0.1838
Android (android.graphics.Color)	4284108441 (0xFF5A4E99)
YUV	90.1380, 30.9910, -0.1210
Hunter-Lab	31.4997, 16.7897, -37.0212

Details

The XYZ color **12.6906, 9.9223, 31.3833** is a dark color, and the websafe version is hex **6666CC**. A complement of this color would be **23.7507, 28.9953, 11.5528**, and the grayscale version is **9.6848, 10.1892, 11.0960**.

A 20% lighter version of the original color is **30.3022, 25.5724, 63.0134**, and **3.6558, 2.4206, 12.5865** is the 20% darker color. If you saturate the color by 10%, you get **10.5836, 7.4060, 31.0089**, and if you desaturate by 10%, it is **15.2675, 13.0565, 31.8527**.

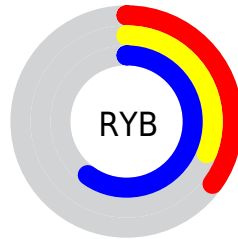
Distribution



Red (35%)

Green (31%)

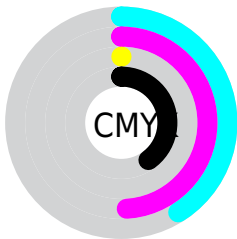
Blue (60%)



Red (35%)

Yellow (31%)

Blue (60%)

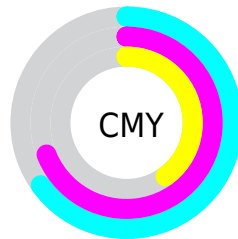


Cyan (41%)

Magenta (49%)

Yellow (0%)

Black (40%)



Cyan (65%)

Magenta (69%)

Yellow (40%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.6906, 9.9223, 31.3833 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 12.6906, 9.9223, 31.3833 by changing the saturation by 10% instead.

■ 12.6906, 9.9223,
31.3833

■ 12.6906, 9.9223,
31.3833

202.6031,
190.1166, 322.7060

■ 7.2914, 5.3475,
20.6300

■ 30.3529, 25.6493,
62.9297

■ 3.6929, 2.4525,
12.6652

■ 43.3466, 37.5702,
84.5598

■ 1.5299, 0.8527,
7.0704

■ 59.6026, 52.7086,
110.6526

■ 0.3461, 0.0000,
3.4271

■ 79.4861, 71.4488,
141.6267

■ 0.0000, 0.0000,
1.3166

■ 103.3626, 94.1754,
177.9005

■ 0.0000, 0.0000,
0.0753

131.5973,

■ 0.0000, 0.0000,

121.2726, 219.8927

0.0000

164.5557,
153.1249, 268.0216

■ 12.6906, 9.9223,
31.3833

■ 12.6906, 9.9223,
31.3833

■ 10.5836, 7.4060,
31.0089

■ 15.2675, 13.0565,
31.8527

■ 8.9163, 5.4652,
30.7221

■ 18.3394, 16.8452,
32.4220

■ 7.6570, 4.0539,
30.5161

■ 21.9313, 21.3230,
33.0970

■ 6.7687, 3.1182,
30.3823

■ 26.0658, 26.5221,
33.8826

■ 6.1856, 2.5488,
30.3031

■ 30.7645, 32.4726,
34.7835

■ 6.1381, 2.5001,
30.2962

■ 36.0475, 39.2027,
35.8041

■ 41.9340, 46.7392,
36.9486

■ 48.4425, 55.1079,
38.2209

■ 55.5906, 64.3330,
39.6247

Harmonies

Analogous

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



9.5649, 9.9223, 36.4392



12.6906, 9.9223, 31.3833



15.3167, 9.9223, 20.5801

Triad

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



12.6906, 9.9223, 31.3833



12.4110, 9.9223, 1.9112



4.8309, 9.9223, 11.1904

Complementary

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



12.6906, 9.9223, 31.3833



23.7507, 28.9953, 11.5528

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.



5.2869, 9.9223, 4.7495



12.6906, 9.9223, 31.3833



9.2980, 9.9223, 1.3531

Square

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



12.6906, 9.9223, 31.3833



15.1331, 9.9223, 4.3770



6.7834, 9.9223, 2.0342



5.3781, 9.9223, 21.6141

Rectangle

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



12.6906, 9.9223, 31.3833



16.2011, 9.9223, 13.4273



6.7834, 9.9223, 2.0342



4.8712, 9.9223, 8.5463

Sweetspot

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



12.6910, 9.9227, 31.3835



41.9171, 41.4992, 59.7729



18.5277, 23.1915, 33.6371



8.9504, 8.7802, 13.1405



72.9764, 76.7769, 83.6100



11.9732, 12.5967, 13.7178

Same Dimension

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



12.6910, 9.9227, 31.3835



18.5725, 12.8138, 55.4664



17.1896, 12.2417, 31.5941



5.9720, 6.0715, 7.7861



5.0928, 2.0765, 25.0401



0.0966, 0.0416, 0.3753

Inverse Universe

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



20.6690, 14.1443, 26.8394



34.7606, 21.3954, 45.5421



18.5046, 26.2908, 11.3072



6.4187, 6.3067, 7.5852



14.1159, 6.9006, 17.6671



0.2211, 0.1072, 0.3169

Previews

White Background



This preview shows how the XYZ color 12.6906, 9.9223, 31.3833 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



This preview shows how the XYZ color 12.6906, 9.9223, 31.3833 looks on a 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 12.6906, 9.9223, 31.3833

Background



This preview shows how black text looks on a background with the XYZ color 12.6906, 9.9223, 31.3833.



This preview shows how white text looks on a background with the XYZ color 12.6906, 9.9223,

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

12.6906, 9.9223, 31.3833

Protanopia

11.1770, 9.9589, 35.0514

Deuteranopia

10.2434, 10.0722, 30.2584



Tritanopia

9.0063, 9.9418, 12.9996

Trichromacy



Original Color

12.6906, 9.9223, 31.3833

Protanomaly

11.5116, 9.8134, 33.6352

Deuteranomaly

10.8382, 9.8820, 30.6143

Tritanomaly

10.0775, 9.7574, 18.4918

Monochromacy



Original Color

12.6906, 9.9223, 31.3833

Achromatopsia

9.7181, 10.2242, 11.1341

Achromatomaly

10.5249, 10.0215, 17.0024

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.6906, 9.9223, 31.3833 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(90, 78, 153)` looks like.

```
.text, #text, p{  
    color:rgb(90, 78, 153)  
}
```

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(90, 78, 153) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(90, 78, 153) }
```

Border

The CSS property to change the border of an element to XYZ 12.6906, 9.9223, 31.3833 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(90, 78, 153) }
```


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

```
.border{ border-color:rgb(90, 78, 153) }
```

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

Here you see how a box with a 4 pixel rgb(90, 78, 153) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(90, 78, 153); -webkit-box-  
shadow:4px 4px 4px 4px rgb(90, 78, 153);  
box-shadow:4px 4px 4px 4px rgb(90, 78,  
153) }
```

Background

The CSS property to change the background color of an element to XYZ 12.6906, 9.9223, 31.3833 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(90, 78, 153) }
```

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

```
.background{ background-color: rgb(90, 78,  
153) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor