

Converting Colors

XYZ(12.8541, 9.7709, 33.1068)

Have a look what the booklet for
XYZ(12.8541, 9.7709, 33.1068)
contains.

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Color

**XYZ(12.8867, 9.7769,
33.1062)**

Conversions

Conversions Part 1

Format	Color
Hex	5A4C9D
RGB	90, 76, 157
RGB Percent	35%, 30%, 62%
CMY	0.6470, 0.7020, 0.3843
CMYK	0.43, 0.52, 0.00, 0.38
HSL	250°, 35%, 46%
HSV	250°, 52%, 62%
XYZ	12.8867, 9.7769, 33.1062
YIQ	89.4200, -17.6570, 28.1590

Conversions

Conversions Part 2

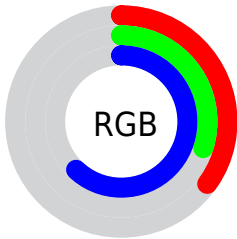
Format	Color
RYB	90, 76, 157
Decimal	5917853
CIELab	37.44, 26.52, -42.35
CIELCh	37, 49.971, 302.059
Yxy	9.7769, 0.2311, 0.1753
Android (android.graphics.Color)	4284107933 (0xFF5A4C9D)
YUV	89.4200, 33.3169, 0.5087
Hunter-Lab	31.2680, 18.8473, -40.8879

Details

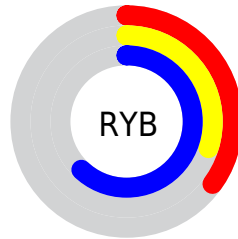
The XYZ color **12.8867, 9.7769, 33.1062** is a dark color, and the websafe version is hex **6666CC**. A complement of this color would be **24.6892, 30.4755, 11.4189**, and the grayscale version is **9.5201, 10.0159, 10.9073**.

A 20% lighter version of the original color is **30.7189, 25.3500, 65.5613**, and **3.7673, 2.3750, 13.6245** is the 20% darker color. If you saturate the color by 10%, you get **10.7795, 7.2762, 32.7348**, and if you desaturate by 10%, it is **15.4794, 12.9199, 33.5764**.

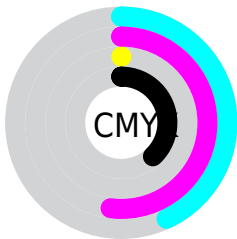
Distribution



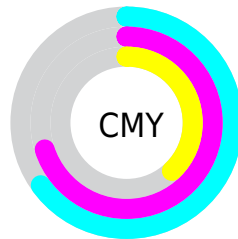
- Red (35%)
- Green (30%)
- Blue (62%)



- Red (35%)
- Yellow (30%)
- Blue (62%)



- Cyan (43%)
- Magenta (52%)
- Yellow (0%)
- Black (38%)



- Cyan (65%)
- Magenta (70%)
- Yellow (38%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.8867, 9.7769, 33.1062 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 12.8867, 9.7769, 33.1062 by changing the saturation by 10% instead.

■ 12.8867, 9.7769,
33.1062

■ 12.8867, 9.7769,
33.1062

203.8426,
189.0723, 330.7747

■ 7.4270, 5.2513,
21.9360

■ 30.7031, 25.3750,
65.6592

■ 3.7793, 2.3954,
13.6120

■ 43.7906, 37.2163,
87.8791

■ 1.5780, 0.8235,
7.7157

■ 60.1514, 52.2650,
114.6194

■ 0.3780, 0.0000,
3.8284

■ 80.1509, 70.9054,
146.2986

■ 0.0000, 0.0000,
1.5317

■ 104.1544, 93.5219,
183.3351

■ 0.0000, 0.0000,
0.2414

132.5272,

■ 0.0000, 0.0000,

120.4990, 226.1476

0.0000

165.6349,
152.2210, 275.1546

■ 12.8867, 9.7769,
33.1062

■ 12.8867, 9.7769,
33.1062

■ 10.7795, 7.2762,
32.7348

■ 15.4794, 12.9199,
33.5764

■ 9.1254, 5.3719,
32.4544

■ 18.5847, 16.7450,
34.1511

■ 7.8903, 4.0132,
32.2572

■ 22.2288, 21.2896,
34.8362

■ 7.0338, 3.1405,
32.1339

■ 26.4361, 26.5884,
35.6372

■ 6.5415, 2.6692,
32.0689

■ 31.2293, 32.6735,
36.5591

■ 36.6298, 39.5756,
37.6067

■ 42.6581, 47.3232,
38.7844

■ 49.3336, 55.9439,
40.0966

■ 56.6748, 65.4638,
41.5472

Harmonies

Analogous

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



9.5116, 9.7769, 39.0322



12.8867, 9.7769, 33.1062



15.7250, 9.7769, 20.9986

Triad

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



12.8867, 9.7769, 33.1062



12.4243, 9.7769, 1.5043



4.4643, 9.7769, 11.2799

Complementary

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



12.8867, 9.7769, 33.1062



24.6892, 30.4755, 11.4189

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.



4.9083, 9.7769, 4.4172



12.8867, 9.7769, 33.1062



9.0771, 9.7769, 1.0227

Square

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



12.8867, 9.7769, 33.1062



15.4185, 9.7769, 3.8443



6.4379, 9.7769, 1.6795



5.0516, 9.7769, 22.7398

Rectangle

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



12.8867, 9.7769, 33.1062



16.6618, 9.7769, 13.2221



6.4379, 9.7769, 1.6795



4.4975, 9.7769, 8.4272

Sweetspot

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



12.8871, 9.7772, 33.1064



44.4382, 43.9472, 63.2672



18.9642, 23.7665, 35.4863



9.4538, 9.2615, 13.8597



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.



12.8871, 9.7772, 33.1064



18.7770, 12.4147, 58.5334



17.8764, 12.3493, 33.3399



6.3864, 6.4876, 8.3223



5.3359, 2.1798, 26.0467



0.1215, 0.0524, 0.4669

Inverse Universe

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



21.4471, 14.3204, 27.6200



36.0499, 21.6013, 46.5997



18.9553, 27.5195, 11.1505



6.8549, 6.7349, 8.0871



14.5700, 7.1326, 17.7845



0.2724, 0.1323, 0.3804

Previews

White Background



This preview shows how the XYZ color 12.8867, 9.7769, 33.1062 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 12.8867, 9.7769, 33.1062 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

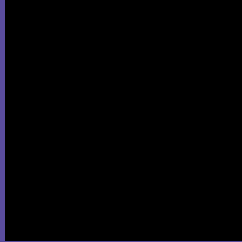
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.8867, 9.7769, 33.1062

Background



This preview shows how black text looks on a background with the XYZ color 12.8867, 9.7769, 33.1062.



This preview shows how white text looks on a background with the XYZ color 12.8867, 9.7769,

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

12.8867, 9.7769, 33.1062

Protanopia

11.2623, 9.8225, 37.8616

Deuteranopia

10.0323, 9.8012, 31.9349



Tritanopia

8.8473, 9.8599, 12.9921

Trichromacy



Original Color

12.8867, 9.7769, 33.1062

Protanomaly

11.5526, 9.6710, 35.9081

Deuteranomaly

10.6080, 9.4915, 32.2833

Tritanomaly

9.9658, 9.6930, 18.7984

Monochromacy



Original Color

12.8867, 9.7769, 33.1062

Achromatopsia

9.4954, 9.9899, 10.8790

Achromatomaly

10.3274, 9.6794, 17.2436

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8867, 9.7769, 33.1062 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, 76, 157) looks like.

```
.text, #text, p{  
    color:rgb(90, 76, 157)  
}
```

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, 76, 157) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(90, 76, 157) }
```

Border

The CSS property to change the border of an element to XYZ 12.8867, 9.7769, 33.1062 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, 76, 157) }
```


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

```
.border{ border-color:rgb(90, 76, 157) }
```

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

Here you see how a box with a 4 pixel `rgb(90, 76, 157)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(90, 76, 157); -webkit-box-  
shadow:4px 4px 4px 4px rgb(90, 76, 157);  
box-shadow:4px 4px 4px 4px rgb(90, 76,  
157) }
```

Background

The CSS property to change the background color of an element to XYZ 12.8867, 9.7769, 33.1062 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(90, 76, 157) }
```

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

```
.background{ background-color: rgb(90, 76,  
157) }
```

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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