

Converting Colors

XYZ(12.4104, 9.4355, 4.2123)

Have a look what the booklet for
XYZ(12.4104, 9.4355, 4.2123)
contains.

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Color

**XYZ(12.3157, 9.3511,
4.1734)**

Conversions

Conversions Part 1

Format	Color
Hex	854432
RGB	133, 68, 50
RGB Percent	52%, 27%, 20%
CMY	0.4784, 0.7333, 0.8039
CMYK	0.00, 0.49, 0.62, 0.48
HSL	13°, 45%, 36%
HSV	13°, 62%, 52%
XYZ	12.3157, 9.3511, 4.1734
YIQ	85.3830, 44.5180, 8.1820

Conversions

Conversions Part 2

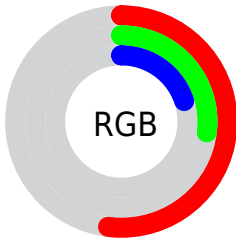
Format	Color
R_{YB}	133, 73, 50
Decimal	8733746
CIE _{Lab}	36.65, 26.07, 23.35
CIE _{LCh}	37, 34.993, 41.848
Yxy	9.3511, 0.4766, 0.3619
Android (android.graphics.Color)	4286923826 (0xFF854432)
YUV	85.3830, -17.4438, 41.7601
Hunter-Lab	30.5796, 18.3753, 13.3140

Details

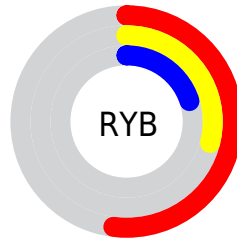
The XYZ color **12.3157, 9.3511, 4.1734** is a dark color, and the websafe version is hex **663333**. A complement of this color would be **11.6792, 14.6320, 24.3988**, and the grayscale version is **8.7443, 9.1996, 10.0184**.

A 20% lighter version of the original color is **29.7542, 24.5328, 14.4763**, and **3.5388, 2.2470, 0.3908** is the 20% darker color. If you saturate the color by 10%, you get **11.4945, 8.1031, 2.6839**, and if you desaturate by 10%, it is **13.3327, 10.8573, 6.1397**.

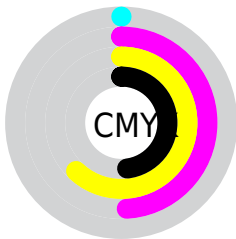
Distribution



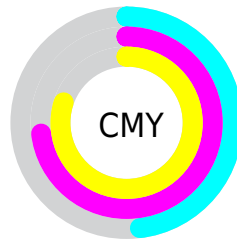
- Red (52%)
- Green (27%)
- Blue (20%)



- Red (52%)
- Yellow (29%)
- Blue (20%)



- Cyan (0%)
- Magenta (49%)
- Yellow (62%)
- Black (48%)





- Cyan (48%)
- Magenta (73%)
- Yellow (80%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 12.3157, 9.3511, 4.1734 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 12.3157, 9.3511, 4.1734 by changing the saturation by 10% instead.


 12.3157, 9.3511,
4.1734


 12.3157, 9.3511,
4.1734


200.2118,
185.9759, 150.1336


 7.0328, 4.9709,
1.7209


 29.6807, 24.5676,
14.4077


 3.5291, 2.2302,
0.3750

 42.4935, 36.1727,
23.0267


 1.4394, 0.7364,
0.0000

 58.5469, 50.9549,
34.5382

 0.2840, 0.0000,
0.0000

 78.2064, 69.2986,
49.3609

 0.0000, 0.0000,
0.0000

 101.8373, 91.5881,
67.9132

 129.8049,

118.2079, 90.6138

162.4746,
149.5424, 117.8811

■ 12.3157, 9.3511,
4.1734

■ 12.3157, 9.3511,
4.1734

■ 11.4945, 8.1031,
2.6839

■ 13.3327, 10.8573,
6.1397

■ 10.8550, 7.0970,
1.6295

■ 14.5569, 12.6339,
8.6188

■ 10.3822, 6.3169,
0.9621

■ 15.9995, 14.6940,
11.6436

■ 10.1085, 5.8579,
0.5979

■ 17.6708, 17.0493,
15.2442

■ 19.5804, 19.7111,
19.4486

■ 21.7372, 22.6899,
24.2827

■ 24.1498, 25.9957,
29.7712

■ 26.8263, 29.6380,
35.9372

■ 29.7745, 33.6262,
42.8028

Harmonies

Analogous

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



13.5493, 9.3511, 7.9506



12.3157, 9.3511, 4.1734



10.2313, 9.3511, 2.5912

Triad

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



12.3157, 9.3511, 4.1734



5.5257, 9.3511, 6.9365



9.7591, 9.3511, 26.5993

Complementary

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



12.3157, 9.3511, 4.1734



11.6792, 14.6320, 24.3988

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.



7.6677, 9.3511, 25.9687



12.3157, 9.3511, 4.1734



5.4409, 9.3511, 12.7956

Square

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



12.3157, 9.3511, 4.1734



6.4176, 9.3511, 3.6883



6.1637, 9.3511, 20.2304



11.9226, 9.3511, 21.7122

Rectangle

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



12.3157, 9.3511, 4.1734



8.7560, 9.3511, 2.3652



6.1637, 9.3511, 20.2304



9.0212, 9.3511, 27.0662

Sweetspot

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



12.3159, 9.3516, 4.1736



32.6167, 31.8915, 29.4234



13.9089, 8.5059, 17.1333



7.1671, 6.9314, 6.2325



64.0503, 67.3860, 73.3833



8.9945, 9.4630, 10.3052

Same Dimension

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



12.3159, 9.3516, 4.1736



20.0537, 13.6850, 3.9038



15.7688, 16.2574, 5.3245



4.7485, 4.8405, 4.9134



9.6339, 5.5903, 0.5713



0.0379, 0.0285, 0.0035

Inverse Universe

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



11.6792, 14.6320, 24.3988



18.7470, 23.8626, 43.3563



7.9657, 7.2048, 23.1610



4.7182, 5.1121, 5.9388



8.7682, 11.0843, 22.8140



0.0356, 0.0489, 0.0808

Previews

White Background



This preview shows how the XYZ color 12.3157, 9.3511, 4.1734 looks on a white background.

Color Contrast Check

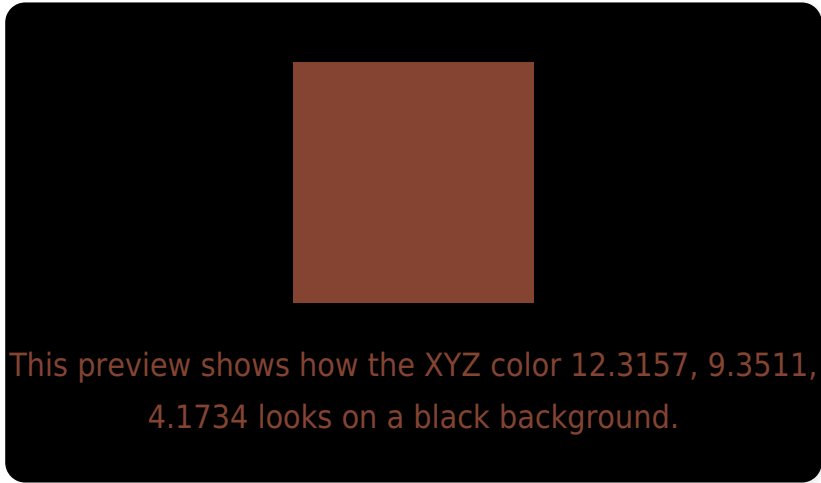
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.3157, 9.3511, 4.1734

Background



This preview shows how black text looks on a background with the XYZ color 12.3157, 9.3511, 4.1734.



This preview shows how white text looks on a background with the XYZ color 12.3157, 9.3511,

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

12.3157, 9.3511, 4.1734

Protanopia

8.7628, 9.4915, 5.2411

Deuteranopia

9.5502, 9.4559, 4.0111



Tritanopia

12.8273, 9.2911, 6.9116

Trichromacy



Original Color

12.3157, 9.3511, 4.1734

Protanomaly

9.7189, 9.1918, 4.7520

Deuteranomaly

10.4603, 9.3752, 4.0546

Tritanomaly

12.6769, 9.3236, 5.8341

Monochromacy



Original Color

12.3157, 9.3511, 4.1734

Achromatopsia

8.6345, 9.0842, 9.8927

Achromatomaly

9.4452, 8.8846, 7.3480

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.3157, 9.3511, 4.1734 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(133, 68, 50)` looks like.

```
.text, #text, p{  
    color:rgb(133, 68, 50)  
}
```

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(133, 68, 50) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(133, 68, 50) }
```

Border

The CSS property to change the border of an element to XYZ 12.3157, 9.3511, 4.1734 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(133, 68, 50) }
```


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

```
.border{ border-color:rgb(133, 68, 50) }
```

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

Here you see how a box with a 4 pixel rgb(133, 68, 50) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(133, 68, 50); -webkit-box-  
shadow:4px 4px 4px 4px rgb(133, 68, 50);  
box-shadow:4px 4px 4px 4px rgb(133, 68,  
50) }
```

Background

The CSS property to change the background color of an element to XYZ 12.3157, 9.3511, 4.1734 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(133, 68, 50) }
```

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

```
.background{ background-color: rgb(133, 68,  
50) }
```

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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