

Converting Colors

XYZ(12.8510, 9.6877, 4.9468)

Have a look what the booklet for
XYZ(12.8510, 9.6877, 4.9468)
contains.

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Color

**XYZ(12.8336, 9.6927,
4.9358)**

Conversions

Conversions Part 1

Format	Color
Hex	874538
RGB	135, 69, 56
RGB Percent	53%, 27%, 22%
CMY	0.4706, 0.7294, 0.7804
CMYK	0.00, 0.49, 0.59, 0.47
HSL	10°, 41%, 37%
HSV	10°, 59%, 53%
XYZ	12.8336, 9.6927, 4.9358
YIQ	87.2520, 43.5090, 9.9490

Conversions

Conversions Part 2

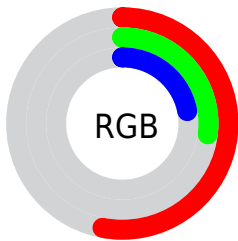
Format	Color
R_{YB}	135, 72, 56
Decimal	8865080
CIE Lab	37.29, 26.83, 20.56
CIE LCh	37, 33.804, 37.458
Yxy	9.6927, 0.4673, 0.3529
Android (android.graphics.Color)	4287055160 (0xFF874538)
YUV	87.2520, -15.4072, 41.8750
Hunter-Lab	31.1331, 19.0978, 12.3934

Details

The XYZ color **12.8336, 9.6927, 4.9358** is a dark color, and the websafe version is hex **663333**. A complement of this color would be **12.9630, 16.5079, 25.4246**, and the grayscale version is **9.1394, 9.6153, 10.4711**.

A 20% lighter version of the original color is **30.5309, 25.2493, 16.0964**, and **3.7529, 2.3522, 0.6370** is the 20% darker color. If you saturate the color by 10%, you get **11.9179, 8.3203, 3.2156**, and if you desaturate by 10%, it is **13.9708, 11.3655, 7.1694**.

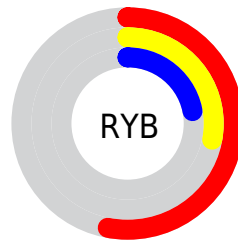
Distribution



Red (53%)

Green (27%)

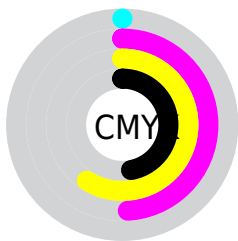
Blue (22%)



Red (53%)

Yellow (28%)

Blue (22%)

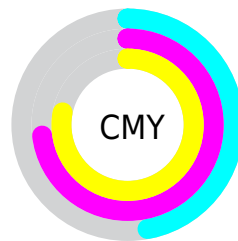


Cyan (0%)

Magenta (49%)

Yellow (59%)

Black (47%)



Cyan (47%)


Magenta (73%)

Yellow (78%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 12.8336, 9.6927, 4.9358 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 12.8336, 9.6927, 4.9358 by changing the saturation by 10% instead.

 12.8336, 9.6927,
4.9358


 12.8336, 9.6927,
4.9358


203.5077,
188.4645, 158.1193


 7.3903, 5.1957,
2.1516


 30.6084, 25.2159,
16.1162

 3.7558, 2.3625,
0.6462

 43.6705, 37.0108,
25.3494

 1.5650, 0.8065,
0.0000

 60.0030, 52.0072,
37.5694

 0.3694, 0.0000,
0.0000

 79.9712, 70.5894,
53.1946

 0.0000, 0.0000,
0.0000

 103.9404, 93.1419,
72.6437

 132.2759,

120.0490, 96.3352

165.3433,
151.6950, 124.6875

■ 12.8336, 9.6927,
4.9358

■ 12.8336, 9.6927,
4.9358

■ 11.9179, 8.3203,
3.2156

■ 13.9708, 11.3655,
7.1694

■ 11.2080, 7.2289,
1.9670

■ 15.3421, 13.3537,
9.9526

■ 10.6875, 6.3990,
1.1427

■ 16.9602, 15.6729,
13.3187

■ 10.3270, 5.8042,
0.6335

■ 18.8364, 18.3373,
17.2986

■ 10.2828, 5.7332,
0.5647

■ 20.9816, 21.3604,
21.9206

■ 23.4059, 24.7549,
27.2115

■ 26.1188, 28.5326,
33.1964

■ 29.1295, 32.7053,
39.8994

■ 32.4467, 37.2839,
47.3431

Harmonies

Analogous

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



13.8633, 9.6927, 9.1127



12.8336, 9.6927, 4.9358



10.8617, 9.6927, 3.0363

Triad

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



12.8336, 9.6927, 4.9358



5.9432, 9.6927, 6.6879



9.7507, 9.6927, 26.8320

Complementary

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



12.8336, 9.6927, 4.9358



12.9630, 16.5079, 25.4246

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.



7.7395, 9.6927, 25.3843



12.8336, 9.6927, 4.9358



5.7392, 9.6927, 12.1391

Square

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



12.8336, 9.6927, 4.9358



6.9535, 9.6927, 3.7441



6.3462, 9.6927, 19.3427



11.9146, 9.6927, 22.7655

Rectangle

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



12.8336, 9.6927, 4.9358



9.3942, 9.6927, 2.6693



6.3462, 9.6927, 19.3427



9.0334, 9.6927, 26.9945

Sweetspot

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



12.8338, 9.6932, 4.9360



33.7741, 32.8975, 31.0673



14.9903, 9.4131, 19.8149



7.6097, 7.3186, 6.7424



65.7814, 69.2071, 75.3665



9.5508, 10.0482, 10.9424

Same Dimension

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



12.8338, 9.6932, 4.9360



20.9173, 14.2523, 4.9908



15.9997, 16.0249, 5.9913



4.7300, 4.8035, 4.9072



9.4893, 5.3012, 0.5231



0.0365, 0.0256, 0.0030

Inverse Universe

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



12.9630, 16.5079, 25.4246



21.1225, 27.5518, 45.2531



9.1473, 8.8765, 24.1527



4.7381, 5.1519, 5.9454



9.4631, 12.4741, 23.0457



0.0371, 0.0518, 0.0813

Previews

White Background



This preview shows how the XYZ color 12.8336, 9.6927, 4.9358 looks on a white background.

Color Contrast Check

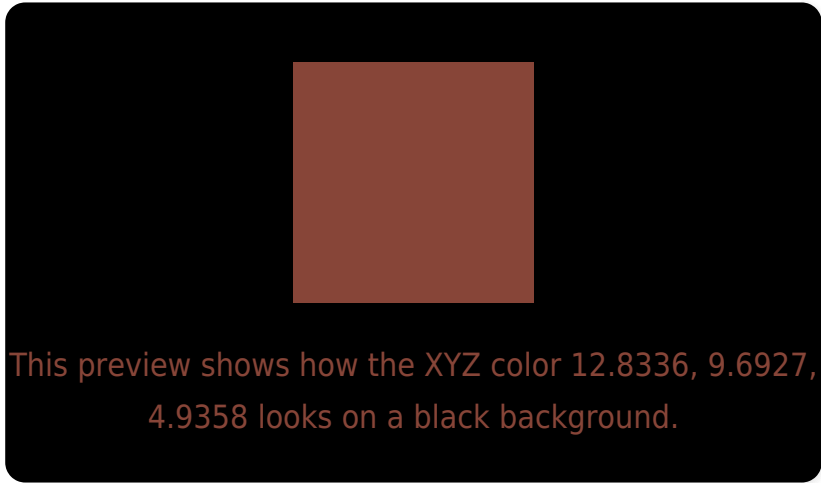
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.8336, 9.6927, 4.9358

Background



This preview shows how black text looks on a background with the XYZ color 12.8336, 9.6927, 4.9358.



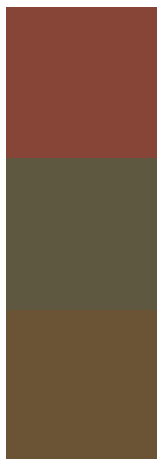
This preview shows how white text looks on a background with the XYZ color 12.8336, 9.6927,

4.9358.

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

12.8336, 9.6927, 4.9358

Protanopia

9.1345, 9.7825, 6.2573

Deuteranopia

9.8763, 9.7235, 4.7244



Tritanopia

13.3302, 9.7164, 7.3038

Trichromacy



Original Color

12.8336, 9.6927, 4.9358

Protanomaly

10.2151, 9.5368, 5.7173

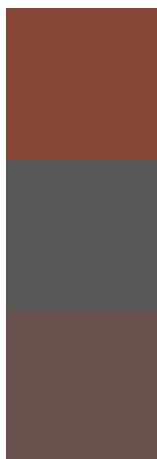
Deuteranomaly

10.7980, 9.6402, 4.7817

Tritanomaly

13.2038, 9.7618, 6.3426

Monochromacy



Original Color

12.8336, 9.6927, 4.9358

Achromatopsia

9.0590, 9.5307, 10.3790

Achromatomaly

9.8821, 9.2022, 8.0928

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8336, 9.6927, 4.9358 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(135, 69, 56)` looks like.

```
.text, #text, p{  
    color:rgb(135, 69, 56)  
}
```

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(135, 69, 56) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(135, 69, 56) }
```

Border

The CSS property to change the border of an element to XYZ 12.8336, 9.6927, 4.9358 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(135, 69, 56) }
```


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

```
.border{ border-color:rgb(135, 69, 56) }
```

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

Here you see how a box with a 4 pixel `rgb(135, 69, 56)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(135, 69, 56); -webkit-box-  
shadow:4px 4px 4px 4px rgb(135, 69, 56);  
box-shadow:4px 4px 4px 4px rgb(135, 69,  
56) }
```

Background

The CSS property to change the background color of an element to XYZ 12.8336, 9.6927, 4.9358 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(135, 69, 56) }
```

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

```
.background{ background-color: rgb(135, 69,  
56) }
```

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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