

Converting Colors

XYZ(12.6766, 10.0244, 4.6464)

Have a look what the booklet for
XYZ(12.6766, 10.0244, 4.6464)
contains.

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Color

**XYZ(12.6980, 10.0087,
4.6308)**

Conversions

Conversions Part 1

Format	Color
Hex	854935
RGB	133, 73, 53
RGB Percent	52%, 29%, 21%
CMY	0.4784, 0.7137, 0.7922
CMYK	0.00, 0.45, 0.60, 0.48
HSL	15°, 43%, 36%
HSV	15°, 60%, 52%
XYZ	12.6980, 10.0087, 4.6308
YIQ	88.6600, 42.1800, 6.5000

Conversions

Conversions Part 2

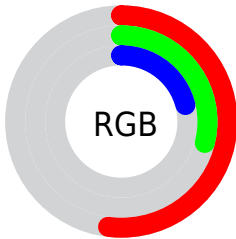
Format	Color
R_{YB}	133, 80, 53
Decimal	8735029
CIE _{Lab}	37.86, 23.46, 23.05
CIE _{LCh}	38, 32.885, 44.493
Yxy	10.0087, 0.4645, 0.3661
Android (android.graphics.Color)	4286925109 (0xFF854935)
YUV	88.6600, -17.5804, 38.8862
Hunter-Lab	31.6365, 16.2809, 13.4670

Details

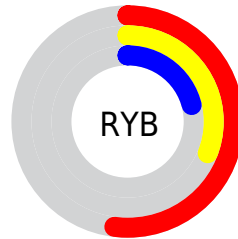
The XYZ color **12.6980, 10.0087, 4.6308** is a dark color, and the websafe version is hex **663333**. A complement of this color would be **11.6065, 14.2597, 24.3308**, and the grayscale version is **9.4518, 9.9440, 10.8290**.

A 20% lighter version of the original color is **30.3695, 25.9048, 15.4561**, and **3.6657, 2.4659, 0.5412** is the 20% darker color. If you saturate the color by 10%, you get **11.8299, 8.6960, 3.0359**, and if you desaturate by 10%, it is **13.7567, 11.5667, 6.7084**.

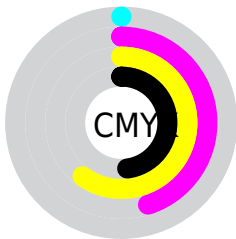
Distribution



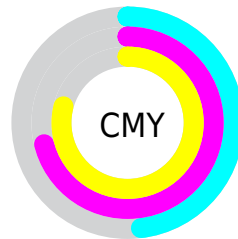
- Red (52%)
- Green (29%)
- Blue (21%)



- Red (52%)
- Yellow (31%)
- Blue (21%)



- Cyan (0%)
- Magenta (45%)
- Yellow (60%)
- Black (48%)



- Cyan (48%)
- Magenta (71%)
- Yellow (79%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.6980, 10.0087, 4.6308 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 12.6980, 10.0087, 4.6308 by changing the saturation by 10% instead.

■ 12.6980, 10.0087,
4.6308

■ 12.6980, 10.0087,
4.6308

202.6500,
190.7341, 154.9980

■ 7.2965, 5.4047,
1.9774

■ 30.3661, 25.8119,
15.4403

■ 3.6962, 2.4866,
0.5413

■ 43.3634, 37.7798,
24.4334

■ 1.5317, 0.8699,
0.0000

■ 59.6233, 52.9713,
36.3769

■ 0.3473, 0.0000,
0.0000

■ 79.5113, 71.7706,
51.6892

■ 0.0000, 0.0000,
0.0000

■ 103.3925, 94.5621,
70.7889

■ 131.6325,

121.7303, 94.0946

164.5965,
153.6595, 122.0248

■ 12.6980, 10.0087,
4.6308

■ 12.6980, 10.0087,
4.6308

■ 11.8299, 8.6960,
3.0359

■ 13.7567, 11.5667,
6.7084

■ 11.1394, 7.6142,
1.8835

■ 15.0163, 13.3803,
9.3035

■ 10.6129, 6.7495,
1.1276

■ 16.4872, 15.4611,
12.4482

■ 10.2238, 6.0885,
0.6363

■ 18.1789, 17.8196,
16.1719

■ 20.1003, 20.4657,
20.5017

■ 22.2597, 23.4086,
25.4633

■ 24.6651, 26.6573,
31.0806

■ 27.3240, 30.2204,
37.3764

■ 30.2436, 34.1060,
44.3725

Harmonies

Analogous

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



13.9884, 10.0087, 8.2494



12.6980, 10.0087, 4.6308



10.6352, 10.0087, 3.1153

Triad

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



12.6980, 10.0087, 4.6308



6.1249, 10.0087, 8.0862



10.5610, 10.0087, 26.3902

Complementary

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



12.6980, 10.0087, 4.6308



11.6065, 14.2597, 24.3308

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.



8.4726, 10.0087, 26.2948



12.6980, 10.0087, 4.6308



6.1112, 10.0087, 14.0598

Square

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



12.6980, 10.0087, 4.6308



6.9517, 10.0087, 4.5495



6.9107, 10.0087, 21.1926



12.6368, 10.0087, 21.4189

Rectangle

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



12.6980, 10.0087, 4.6308



9.1997, 10.0087, 2.9508



6.9107, 10.0087, 21.1926



9.8332, 10.0087, 26.9950

Sweetspot

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



12.6982, 10.0092, 4.6310



33.1239, 32.6988, 30.2309



13.9266, 8.7250, 16.5728



7.2775, 7.1107, 6.3981



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.



12.6982, 10.0092, 4.6310



20.7190, 14.8516, 4.6310



16.2205, 17.0538, 5.8051



4.7602, 4.8641, 4.9173



9.7442, 5.8110, 0.6081



0.0388, 0.0303, 0.0038

Inverse Universe

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



11.6065, 14.2597, 24.3308



18.5268, 23.0748, 43.2158



8.0844, 7.2155, 23.1567



4.7057, 5.0869, 5.9346



8.3566, 10.2610, 22.6768



0.0347, 0.0471, 0.0805

Previews

White Background



This preview shows how the XYZ color 12.6980, 10.0087, 4.6308 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 12.6980, 10.0087, 4.6308 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

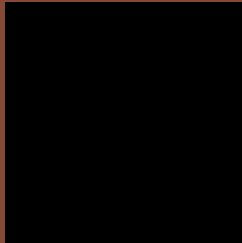
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.6980, 10.0087, 4.6308

Background



This preview shows how black text looks on a background with the XYZ color 12.6980, 10.0087, 4.6308.



This preview shows how white text looks on a background with the XYZ color 12.6980, 10.0087,

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

12.6980, 10.0087, 4.6308

Protanopia

9.3753, 10.1695, 5.6064

Deuteranopia

10.2102, 10.1371, 4.4361



Tritanopia

13.2917, 9.9567, 7.8779

Trichromacy



Original Color

12.6980, 10.0087, 4.6308

Protanomaly

10.3393, 9.9511, 5.2467

Deuteranomaly

11.0112, 9.9754, 4.4771

Tritanomaly

13.0979, 9.9801, 6.5462

Monochromacy



Original Color

12.6980, 10.0087, 4.6308

Achromatopsia

9.4954, 9.9899, 10.8790

Achromatomaly

10.2235, 9.7116, 8.1732

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.6980, 10.0087, 4.6308 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, 73, 53)` looks like.

```
.text, #text, p{  
    color:rgb(133, 73, 53)  
}
```

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, 73, 53) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(133, 73, 53) }
```

Border

The CSS property to change the border of an element to XYZ 12.6980, 10.0087, 4.6308 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, 73, 53) }
```


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

```
.border{ border-color:rgb(133, 73, 53) }
```

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

Here you see how a box with a 4 pixel rgb(133, 73, 53) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(133, 73, 53); -webkit-box-  
shadow:4px 4px 4px 4px rgb(133, 73, 53);  
box-shadow:4px 4px 4px 4px rgb(133, 73,  
53) }
```

Background

The CSS property to change the background color of an element to XYZ 12.6980, 10.0087, 4.6308 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(133, 73, 53) }
```

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

```
.background{ background-color: rgb(133, 73,  
53) }
```

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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