

Converting Colors

XYZ(12.1452, 9.7664, 2.0581)

Have a look what the booklet for
XYZ(12.1452, 9.7664, 2.0581)
contains.

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Color

**XYZ(12.2101, 9.8135,
2.0613)**

Conversions

Conversions Part 1

Format	Color
Hex	854917
RGB	133, 73, 23
RGB Percent	52%, 29%, 9%
CMY	0.4784, 0.7137, 0.9098
CMYK	0.00, 0.45, 0.83, 0.48
HSL	27°, 71%, 31%
HSV	27°, 83%, 52%
XYZ	12.2101, 9.8135, 2.0613
YIQ	85.2400, 51.8100, -2.8300

Conversions

Conversions Part 2

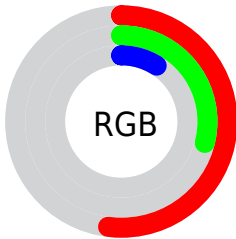
Format	Color
R_{YB}	133, 115, 23
Decimal	8734999
CIE _{Lab}	37.51, 21.66, 38.95
CIE _{LCh}	38, 44.565, 60.919
Yxy	9.8135, 0.5070, 0.4075
Android (android.graphics.Color)	4286925079 (0xFF854917)
YUV	85.2400, -30.6843, 41.8855
Hunter-Lab	31.3265, 14.7524, 18.0272

Details

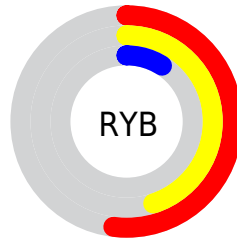
The XYZ color **12.2101, 9.8135, 2.0613** is a dark color, and the websafe version is hex **663300**. A complement of this color would be **7.6801, 8.0619, 23.3415**, and the grayscale version is **8.7401, 9.1952, 10.0136**.

A 20% lighter version of the original color is **29.5509, 25.4376, 9.1468**, and **3.5571, 2.4502, 0.2855** is the 20% darker color. If you saturate the color by 10%, you get **11.6596, 8.8751, 1.3771**, and if you desaturate by 10%, it is **12.8835, 10.8910, 3.1165**.

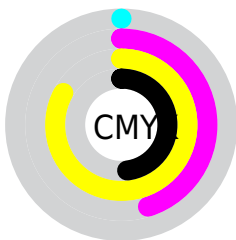
Distribution



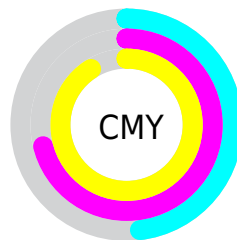
- Red (52%)
- Green (29%)
- Blue (9%)



- Red (52%)
- Yellow (45%)
- Blue (9%)



- Cyan (0%)
- Magenta (45%)
- Yellow (83%)
- Black (48%)



- Cyan (48%)
- Magenta (71%)
- Yellow (91%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.2101, 9.8135, 2.0613 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 12.2101, 9.8135, 2.0613 by changing the saturation by 10% instead.

■ 12.2101, 9.8135,
2.0613

■ 12.2101, 9.8135,
2.0613

199.5329,
189.3358, 123.3215

■ 6.9601, 5.2755,
0.5926

■ 29.4907, 25.4441,
9.2077

■ 3.4833, 2.4098,
0.0000

■ 42.2521, 37.3055,
15.7682

■ 1.4142, 0.8309,
0.0000

■ 58.2480, 52.3768,
24.8783

■ 0.2663, 0.0000,
0.0000


■ 77.8438, 71.0424,
36.9565


■ 0.0000, 0.0000,
0.0000


■ 101.4049, 93.6867,
52.4214


■ 129.2965,


120.6941, 71.6915


 161.8841,
152.4490, 95.1854


 12.2101, 9.8135,
2.0613


 12.2101, 9.8135,
2.0613


 11.6596, 8.8751,
1.3771


 12.8835, 10.8910,
3.1165

 11.3128, 8.2664,
0.9993

 13.6898, 12.1131,
4.5893

 14.6385, 13.4868,
6.5200

 15.7378, 15.0180,
8.9437

 16.9952, 16.7123,
11.8922

■ 18.4177, 18.5750,
15.3946

■ 20.0117, 20.6109,
19.4778

■ 21.7834, 22.8249,
24.1669

■ 23.7386, 25.2215,
29.4855

Harmonies

Analogous

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



14.7777, 9.8135, 4.5399



12.2101, 9.8135, 2.0613



9.2409, 9.8135, 1.4763

Triad

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



12.2101, 9.8135, 2.0613



4.8983, 9.8135, 10.9356



12.3908, 9.8135, 30.2368

Complementary

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



12.2101, 9.8135, 2.0613



7.6801, 8.0619, 23.3415

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.



9.4145, 9.8135, 34.8523



12.2101, 9.8135, 2.0613



5.4152, 9.8135, 20.7809

Square

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



12.2101, 9.8135, 2.0613



5.3550, 9.8135, 4.7875



6.9384, 9.8135, 30.7366



14.8959, 9.8135, 20.1175

Rectangle

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



12.2101, 9.8135, 2.0613



7.5269, 9.8135, 1.7657



6.9384, 9.8135, 30.7366



11.3944, 9.8135, 32.6593

Sweetspot

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



12.2103, 9.8140, 2.0615



32.2222, 32.2778, 25.6686



11.5600, 6.2317, 8.8789



7.0872, 7.0468, 5.3579



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.



12.2103, 9.8140, 2.0615



20.1834, 14.6372, 1.8113



17.4816, 20.3566, 3.8186



4.8340, 5.0116, 4.9419



10.7836, 7.8898, 0.9545



0.0445, 0.0416, 0.0057

Inverse Universe

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



7.6801, 8.0619, 23.3415



11.7285, 11.2943, 41.3003



5.0143, 2.7302, 22.4529



4.6292, 4.9341, 5.9091



6.2816, 6.1110, 21.9852



0.0291, 0.0358, 0.0786

Previews

White Background



This preview shows how the XYZ color 12.2101, 9.8135, 2.0613 looks on a white background.

Color Contrast Check

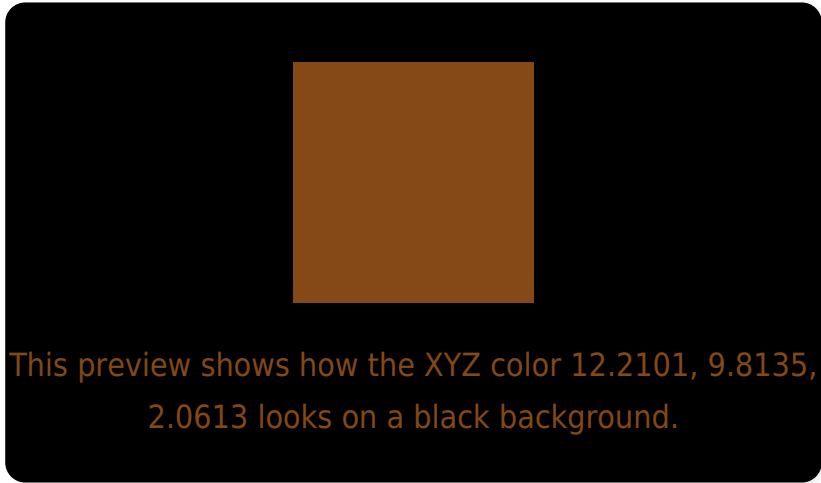
Large Text (above 18pt) WCAG AA ✓ Pass

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

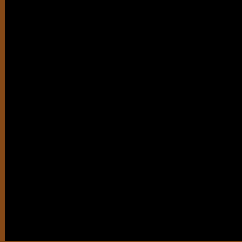
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.2101, 9.8135, 2.0613

Background



This preview shows how black text looks on a background with the XYZ color 12.2101, 9.8135, 2.0613.



This preview shows how white text looks on a background with the XYZ color 12.2101, 9.8135,

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

12.2101, 9.8135, 2.0613

Protanopia

9.0257, 9.9332, 2.4785

Deuteranopia

9.9616, 9.8291, 1.9444



Tritanopia

13.2614, 9.7662, 7.4894

Trichromacy



Original Color

12.2101, 9.8135, 2.0613

Protanomaly

9.9618, 9.7058, 2.3257

Deuteranomaly

10.7407, 9.7809, 1.9836

Tritanomaly

12.7113, 9.7245, 4.8215

Monochromacy



Original Color

12.2101, 9.8135, 2.0613

Achromatopsia

8.6345, 9.0842, 9.8927

Achromatomaly

9.2914, 9.0574, 5.8160

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.2101, 9.8135, 2.0613 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, 23)` looks like.

```
.text, #text, p{  
  color:rgb(133, 73, 23)  
}
```

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, 23) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(133, 73, 23) }
```

Border

The CSS property to change the border of an element to XYZ 12.2101, 9.8135, 2.0613 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, 23) }
```


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

```
.border{ border-color:rgb(133, 73, 23) }
```

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, 23)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(133, 73, 23); -webkit-box-  
shadow:4px 4px 4px 4px rgb(133, 73, 23);  
box-shadow:4px 4px 4px 4px rgb(133, 73,  
23) }
```

Background

The CSS property to change the background color of an element to XYZ 12.2101, 9.8135, 2.0613 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, 23) }
```

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

```
.background{ background-color: rgb(133, 73,  
23) }
```

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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