

Converting Colors

XYZ(20.3433, 12.2205, 4.6948)

Have a look what the booklet for
XYZ(20.3433, 12.2205, 4.6948)
contains.

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Color

**XYZ(20.2307, 12.1780,
4.6525)**

Conversions

Conversions Part 1

Format	Color
Hex	B23435
RGB	178, 52, 53
RGB Percent	70%, 20%, 21%
CMY	0.3020, 0.7960, 0.7922
CMYK	0.00, 0.71, 0.70, 0.30
HSL	360°, 55%, 45%
HSV	360°, 71%, 70%
XYZ	20.2307, 12.1780, 4.6525
YIQ	89.7880, 74.7750, 27.0230

Conversions

Conversions Part 2

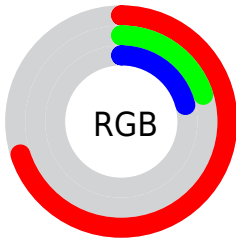
Format	Color
R_{YB}	178, 52, 53
Decimal	11678773
CIE Lab	41.50, 50.70, 29.21
CIE LCh	41, 58.514, 29.951
Yxy	12.1780, 0.5459, 0.3286
Android (android.graphics.Color)	4289868853 (0xFFB23435)
YUV	89.7880, -18.1365, 77.3619
Hunter-Lab	34.8970, 42.4114, 16.5233

Details

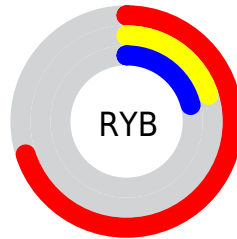
The XYZ color **20.2307, 12.1780, 4.6525** is a dark color, and the websafe version is hex **993333**. A complement of this color would be **25.2734, 35.7455, 47.1663**, and the grayscale version is **9.6990, 10.2041, 11.1123**.

A 20% lighter version of the original color is **43.4931, 29.9608, 15.5473**, and **7.5260, 3.8735, 0.6381** is the 20% darker color. If you saturate the color by 10%, you get **19.2465, 10.7443, 2.6762**, and if you desaturate by 10%, it is **21.6646, 14.2719, 7.5172**.

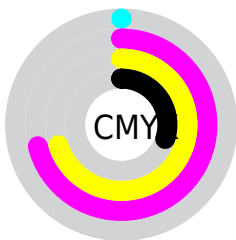
Distribution



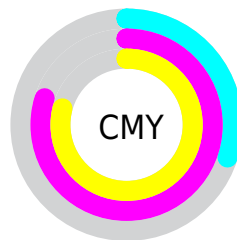
- Red (70%)
- Green (20%)
- Blue (21%)



- Red (70%)
- Yellow (20%)
- Blue (21%)



- Cyan (0%)
- Magenta (71%)
- Yellow (70%)
- Black (30%)





- Cyan (30%)
- Magenta (80%)
- Yellow (79%)
- Black (0%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 20.2307, 12.1780, 4.6525 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 20.2307, 12.1780, 4.6525 by changing the saturation by 10% instead.


 20.2307, 12.1780,
4.6525


 20.2307, 12.1780,
4.6525


245.9711,
205.5802, 155.2231


 12.6721, 6.8650,
1.9897


 43.3046, 29.8189,
15.4887


 7.2786, 3.3778,
0.5489


 59.5507, 42.9156,
24.4991


 3.6848, 1.3320,
0.0000

 79.4232, 59.3756,
36.4625

 1.5254, 0.1658,
0.0000

 103.2876, 79.5834,
51.7975

 0.3430, 0.0000,
0.0000

 131.5093,
103.9234, 70.9225

 0.0000, 0.0000,
0.0000

 164.4535,

132.7799, 94.2560

202.4857,
166.5374, 122.2167

■ 20.2307, 12.1780,
4.6525

■ 20.2307, 12.1780,
4.6525

■ 19.2465, 10.7443,
2.6762

■ 21.6646, 14.2719,
7.5172

■ 18.6580, 9.8904,
1.4843

■ 23.5924, 17.0902,
11.3575

■ 18.3677, 9.4680,
0.8997

■ 26.0537, 20.6917,
16.2509

■ 29.0842, 25.1287,
22.2670

■ 32.7161, 30.4491,
29.4693

■ 36.9797, 36.6971,
37.9166

■ 41.9027, 43.9138,
47.6639

■ 47.5117, 52.1380,
58.7628

■ 53.8315, 61.4064,
71.2622

Harmonies

Analogous

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



21.8613, 12.1780, 13.2800



20.2307, 12.1780, 4.6525



16.1847, 12.1780, 1.5513

Triad

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



20.2307, 12.1780, 4.6525



5.8298, 12.1780, 4.6351



11.5678, 12.1780, 53.3252

Complementary

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



20.2307, 12.1780, 4.6525



25.2734, 35.7455, 47.1663

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.



7.9357, 12.1780, 45.7360



20.2307, 12.1780, 4.6525



5.1597, 12.1780, 13.2395

Square

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



20.2307, 12.1780, 4.6525



7.9452, 12.1780, 1.5464



5.8253, 12.1780, 28.7758



16.1694, 12.1780, 45.7822

Rectangle

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



20.2307, 12.1780, 4.6525



13.0652, 12.1780, 0.9740



5.8253, 12.1780, 28.7758



10.2023, 12.1780, 52.4194

Sweetspot

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



20.2310, 12.1787, 4.6527



58.9151, 54.6114, 52.6204



27.1460, 14.8895, 43.5624



12.6342, 11.4861, 10.8285



86.6293, 91.1408, 99.2523



17.0014, 17.8868, 19.4787

Same Dimension

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



20.2310, 12.1787, 4.6527



34.2143, 18.4845, 3.4627



24.8745, 21.5018, 6.0891



8.4990, 8.5063, 8.8602



13.1435, 6.7749, 0.6496



0.4144, 0.2135, 0.0251

Inverse Universe

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



20.2310, 12.1787, 4.6527



34.2143, 18.4845, 3.4627



15.8258, 16.6914, 44.5069



8.4990, 8.5063, 8.8602



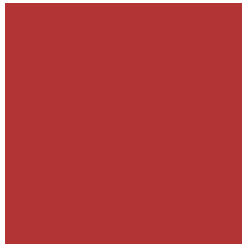
13.1435, 6.7749, 0.6496



0.4144, 0.2135, 0.0251

Previews

White Background



This preview shows how the XYZ color 20.2307, 12.1780, 4.6525 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 × Fail

Black Background



This preview shows how the XYZ color 20.2307, 12.1780, 4.6525 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 20.2307, 12.1780, 4.6525

Background



This preview shows how black text looks on a background with the XYZ color 20.2307, 12.1780, 4.6525.



This preview shows how white text looks on a background with the XYZ color 20.2307, 12.1780,

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

20.2307, 12.1780, 4.6525

Protanopia

11.6307, 12.4917, 7.5925

Deuteranopia

12.5219, 12.3402, 4.3067



Tritanopia

20.2539, 12.1873, 4.7749

Trichromacy



Original Color

20.2307, 12.1780, 4.6525

Protanomaly

13.6156, 11.3913, 6.3316

Deuteranomaly

14.5057, 11.5645, 4.3734

Tritanomaly

20.2539, 12.1873, 4.7749

Monochromacy



Original Color

20.2307, 12.1780, 4.6525

Achromatopsia

9.7181, 10.2242, 11.1341

Achromatomaly

11.9500, 9.8423, 8.2911

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.2307, 12.1780, 4.6525 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(178, 52, 53)` looks like.

```
.text, #text, p{  
    color:rgb(178, 52, 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(178, 52, 53) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(178, 52, 53) }
```

Border

The CSS property to change the border of an element to XYZ 20.2307, 12.1780, 4.6525 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(178, 52, 53) }
```


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

```
.border{ border-color:rgb(178, 52, 53) }
```

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

Here you see how a box with a 4 pixel rgb(178, 52, 53) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(178, 52, 53); -webkit-box-  
shadow:4px 4px 4px 4px rgb(178, 52, 53);  
box-shadow:4px 4px 4px 4px rgb(178, 52,  
53) }
```

Background

The CSS property to change the background color of an element to XYZ 20.2307, 12.1780, 4.6525 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(178, 52, 53) }
```

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

```
.background{ background-color: rgb(178, 52,  
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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