

# Converting Colors

XYZ(20.9298, 12.7776, 6.7916)

Have a look what the booklet for  
XYZ(20.9298, 12.7776, 6.7916)  
contains.

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# Color

**XYZ(20.8177, 12.7107,  
6.8250)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	B23844
RGB	178, 56, 68
RGB Percent	70%, 22%, 27%
CMY	0.3020, 0.7804, 0.7333
CMYK	0.00, 0.69, 0.62, 0.30
HSL	354°, 52%, 46%
HSV	354°, 69%, 70%
XYZ	20.8177, 12.7107, 6.8250
YIQ	93.8460, 68.8600, 29.5960

# Conversions

## Conversions Part 2

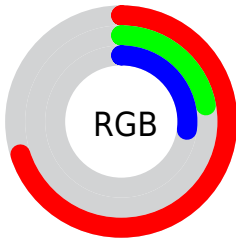
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	178, 56, 68
Decimal	11679812
CIE <sub>Lab</sub>	42.32, 50.00, 21.11
CIE <sub>LCh</sub>	42, 54.272, 22.892
Yxy	12.7107, 0.5159, 0.3150
Android (android.graphics.Color)	4289869892 (0xFFB23844)
YUV	93.8460, -12.7421, 73.8031
Hunter-Lab	35.6521, 41.8373, 13.6064

# Details

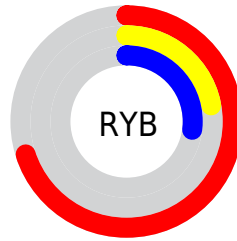
The XYZ color **20.8177, 12.7107, 6.8250** is a dark color, and the websafe version is hex **993333**. A complement of this color would be **24.4353, 35.4351, 41.6318**, and the grayscale version is **10.6214, 11.1745, 12.1690**.

A 20% lighter version of the original color is **44.3249, 30.7635, 20.1248**, and **7.7832, 3.9921, 1.2800** is the 20% darker color. If you saturate the color by 10%, you get **19.6785, 11.1120, 4.3506**, and if you desaturate by 10%, it is **22.3982, 14.9778, 10.1083**.

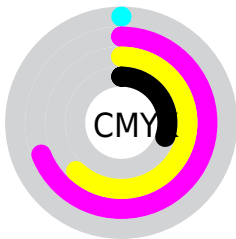
# Distribution



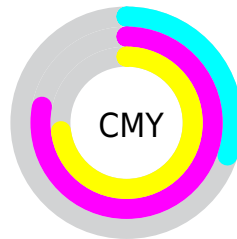
- Red (70%)
- Green (22%)
- Blue (27%)



- Red (70%)
- Yellow (22%)
- Blue (27%)



- Cyan (0%)
- Magenta (69%)
- Yellow (62%)
- Black (30%)




- Cyan (30%)
- Magenta (78%)
- Yellow (73%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 20.8177, 12.7107, 6.8250 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 20.8177, 12.7107, 6.8250 by changing the saturation by 10% instead.




 20.8177, 12.7107,  
6.8250


 20.8177, 12.7107,  
6.8250


249.0582,  
209.0552, 175.7770


 13.1025, 7.2296,  
3.2761


 44.2775, 30.7831,  
20.1271


 7.5767, 3.6061,  
1.2373


 60.7528, 44.1431,  
30.7174

 3.8748, 1.4558,  
0.0096

 80.8789, 60.8984,  
44.4920

 1.6315, 0.2573,  
0.0000

 105.0211, 81.4331,  
61.8693

 0.4128, 0.0000,  
0.0000

 133.5448,  
106.1317, 83.2679

 0.0000, 0.0000,  
0.0000

 166.8153,

135.3787, 109.1063

205.1980,  
169.5584, 139.8032

■ 20.8177, 12.7107,  
6.8250

■ 20.8177, 12.7107,  
6.8250

■ 19.6785, 11.1120,  
4.3506

■ 22.3982, 14.9778,  
10.1083

■ 18.9344, 10.1065,  
2.6139

■ 24.4584, 17.9735,  
14.2623

■ 18.5133, 9.5715,  
1.5266

■ 27.0335, 21.7539,  
19.3431

■ 18.4652, 9.5070,  
1.4128

■ 30.1549, 26.3689,  
25.4023

■ 33.8518, 31.8642,  
32.4875

■ 38.1512, 38.2824,  
40.6432

■ 43.0784, 45.6630,  
49.9113

■ 48.6571, 54.0436,  
60.3315

■ 54.9099, 63.4595,  
71.9414

# Harmonies

## Analogous

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



21.6273, 12.7107, 16.8017



20.8177, 12.7107, 6.8250



17.4432, 12.7107, 2.5574

# Triad

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



20.8177, 12.7107, 6.8250



6.8539, 12.7107, 4.2448



11.1386, 12.7107, 50.1102

# Complementary

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



20.8177, 12.7107, 6.8250



24.4353, 35.4351, 41.6318

# 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.



7.9488, 12.7107, 40.5056



20.8177, 12.7107, 6.8250



5.8615, 12.7107, 11.2482

# Square

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



20.8177, 12.7107, 6.8250



9.2859, 12.7107, 1.7593



6.2116, 12.7107, 24.5146



15.3875, 12.7107, 46.4477



# Rectangle

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



20.8177, 12.7107, 6.8250



14.5321, 12.7107, 1.5709



6.2116, 12.7107, 24.5146



9.9226, 12.7107, 48.2031

# Sweetspot

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



20.8180, 12.7114, 6.8252



59.3834, 54.7987, 55.0865



25.1345, 14.1289, 43.5218



12.7464, 11.5309, 11.4193



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.



20.8180, 12.7114, 6.8252



34.9430, 19.1350, 6.1928



24.1058, 19.8140, 6.2964



8.5292, 8.5184, 9.0191



13.2234, 6.8069, 1.0704



0.4271, 0.2186, 0.0917



# Inverse Universe

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



20.8180, 12.7114, 6.8252



34.9430, 19.1350, 6.1928



17.5442, 19.8094, 45.0183



8.5292, 8.5184, 9.0191



13.2234, 6.8069, 1.0704



0.4271, 0.2186, 0.0917



# Previews

## White Background



This preview shows how the XYZ color 20.8177, 12.7107, 6.8250 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 20.8177, 12.7107, 6.8250 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 20.8177, 12.7107, 6.8250**

## **Background**



This preview shows how black text looks on a background with the XYZ color 20.8177, 12.7107, 6.8250.



This preview shows how white text looks on a background with the XYZ color 20.8177, 12.7107,



# 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

20.8177, 12.7107, 6.8250

### Protanopia

12.2213, 12.8666, 10.8562

### Deuteranopia

13.0784, 12.8511, 6.3486



## Tritanopia

20.6388, 12.7175, 5.6419

# Trichromacy



## Original Color

20.8177, 12.7107, 6.8250

## Protanomaly

14.1340, 11.8254, 9.1270

## Deuteranomaly

15.0232, 12.0058, 6.3760

## Tritanomaly

20.7204, 12.7501, 6.0716

# Monochromacy



## Original Color

20.8177, 12.7107, 6.8250

## Achromatopsia

10.6392, 11.1932, 12.1894

## Achromatomaly

12.9658, 10.7532, 9.9865

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 20.8177, 12.7107, 6.8250 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, 56, 68)` looks like.

```
.text, #text, p{  
    color:rgb(178, 56, 68)  
}
```

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, 56, 68) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(178, 56, 68) }
```

## Border

The CSS property to change the border of an element to XYZ 20.8177, 12.7107, 6.8250 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, 56, 68) }
```



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

```
.border{ border-color:rgb(178, 56, 68) }
```

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

Here you see how a box with a 4 pixel rgb(178, 56, 68) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(178, 56, 68); -webkit-box-  
shadow:4px 4px 4px 4px rgb(178, 56, 68);  
box-shadow:4px 4px 4px 4px rgb(178, 56,  
68) }
```

# Background

The CSS property to change the background color of an element to XYZ 20.8177, 12.7107, 6.8250 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(178, 56, 68) }
```

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

```
.background{ background-color: rgb(178, 56,  
68) }
```

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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