

# Converting Colors

XYZ(20.8347, 19.8943, 29.7877)

Have a look what the booklet for  
XYZ(20.8347, 19.8943, 29.7877)  
contains.

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# Color

**XYZ(20.8384, 19.9361,  
29.9439)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	817792
RGB	129, 119, 146
RGB Percent	51%, 47%, 57%
CMY	0.4941, 0.5333, 0.4274
CMYK	0.12, 0.18, 0.00, 0.43
HSL	262°, 11%, 52%
HSV	262°, 18%, 57%
XYZ	20.8384, 19.9361, 29.9439
YIQ	125.0680, -2.7070, 10.5170

# Conversions

## Conversions Part 2

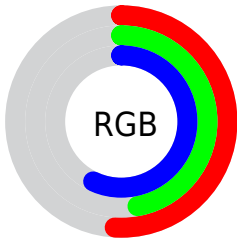
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	129, 119, 146
Decimal	8484754
CIE <sub>Lab</sub>	51.76, 9.40, -13.22
CIE <sub>LCh</sub>	52, 16.227, 305.416
Yxy	19.9361, 0.2947, 0.2819
Android (android.graphics.Color)	4286674834 (0xFF817792)
YUV	125.0680, 10.3195, 3.4484
Hunter-Lab	44.6499, 5.1699, -8.5072

# Details

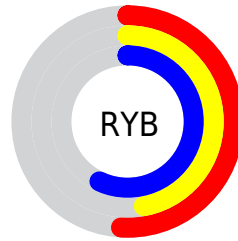
The XYZ color **20.8384, 19.9361, 29.9439** is a dark color, and the websafe version is hex **666699**. A complement of this color would be **23.7627, 27.1244, 21.4368**, and the grayscale version is **19.4834, 20.4980, 22.3224**.

A 20% lighter version of the original color is **44.2796, 43.2410, 60.6561**, and **7.6271, 7.0382, 11.7830** is the 20% darker color. If you saturate the color by 10%, you get **17.8985, 16.0367, 29.3465**, and if you desaturate by 10%, it is **24.1721, 24.4359, 30.6371**.

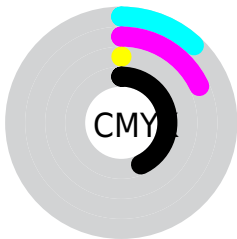
# Distribution



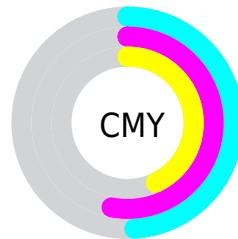
- Red (51%)
- Green (47%)
- Blue (57%)



- Red (51%)
- Yellow (47%)
- Blue (57%)



- Cyan (12%)
- Magenta (18%)
- Yellow (0%)
- Black (43%)



- Cyan (49%)
- Magenta (53%)
- Yellow (43%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 20.8384, 19.9361, 29.9439 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 20.8384, 19.9361, 29.9439 by changing the saturation by 10% instead.



■ 20.8384, 19.9361,  
29.9439

■ 20.8384, 19.9361,  
29.9439

249.1664,  
251.5690, 315.8420

■ 13.1177, 12.3486,  
19.5443

■ 44.3117, 43.3100,  
60.6334

■ 7.5872, 6.9816,  
11.8835

■ 60.7951, 59.8652,  
81.7604

■ 3.8815, 3.4506,  
6.5428

■ 80.9301, 80.1785,  
107.3003

■ 1.6353, 1.3712,  
3.1038

105.0820,  
104.6342, 137.6716

■ 0.4153, 0.1954,  
1.1479

133.6162,  
133.6167, 173.2929

■ 0.0000, 0.0000,  
0.0000

166.8982,

167.5104, 214.5827

205.2931,  
206.6997, 261.9596

■ 20.8384, 19.9361,  
29.9439

■ 20.8384, 19.9361,  
29.9439

■ 17.8985, 16.0367,  
29.3465

■ 24.1721, 24.4359,  
30.6371

■ 15.3351, 12.7090,  
28.8393

■ 27.9124, 29.5579,  
31.4286

■ 13.1324, 9.9262,  
28.4183

■ 32.0736, 35.3259,  
32.3226

■ 11.2725, 7.6577,  
28.0784

■ 36.6688, 41.7617,  
33.3226

■ 9.7359, 5.8702,  
27.8144

■ 41.7105, 48.8862,  
34.4321

8.5009, 4.5261,  
27.6200

47.2107, 56.7192,  
35.6541

7.5426, 3.5820,  
27.4883

53.1810, 65.2797,  
36.9918

6.8130, 2.9483,  
27.4045

59.6324, 74.5861,  
38.4481

6.7135, 2.8616,  
27.3930

66.5758, 84.6560,  
40.0258

# Harmonies

## Analogous

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



19.2483, 19.9361, 32.0137



20.8384, 19.9361, 29.9439



21.9681, 19.9361, 25.6914

# Triad

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



20.8384, 19.9361, 29.9439



20.2931, 19.9361, 14.4773



15.9753, 19.9361, 22.5720

# Complementary

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



20.8384, 19.9361, 29.9439



23.7627, 27.1244, 21.4368

# 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.



16.2194, 19.9361, 18.1575



20.8384, 19.9361, 29.9439



18.6521, 19.9361, 13.8904

# Square

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



20.8384, 19.9361, 29.9439



21.6407, 19.9361, 16.8761



17.1768, 19.9361, 15.1388



16.4897, 19.9361, 27.3817



# Rectangle

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



20.8384, 19.9361, 29.9439



22.2742, 19.9361, 22.4379



17.1768, 19.9361, 15.1388



15.9717, 19.9361, 20.9922

# Sweetspot

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



20.8390, 19.9369, 29.9443



44.1399, 45.1479, 54.3615



21.6150, 23.6344, 30.6171



9.7401, 9.9355, 12.0766



69.3244, 72.9347, 79.4259



10.7221, 11.2805, 12.2844



# Same Dimension

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



20.8390, 19.9369, 29.9443



34.6298, 32.3266, 52.3880



23.0098, 21.0560, 30.0459



5.6903, 5.7313, 7.2761



5.9308, 2.5300, 24.1068



0.1032, 0.0467, 0.2965



# Inverse Universe

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



22.8955, 21.0831, 26.1562



38.9490, 34.7356, 44.3524



21.7206, 26.0717, 21.3412



5.9451, 5.8731, 6.8171



12.1399, 6.0610, 9.4836

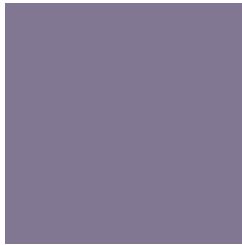


0.1629, 0.0799, 0.1913



# Previews

## White Background



This preview shows how the XYZ color 20.8384, 19.9361, 29.9439 looks on a white 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



# Black Background



This preview shows how the XYZ color 20.8384, 19.9361, 29.9439 looks on a black 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

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

**XYZ 20.8384, 19.9361, 29.9439**

## **Background**



This preview shows how black text looks on a background with the XYZ color 20.8384, 19.9361, 29.9439.



This preview shows how white text looks on a background with the XYZ color 20.8384, 19.9361,



# 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

20.8384, 19.9361, 29.9439

### Protanopia

19.7760, 19.9087, 30.8174

### Deuteranopia

20.4831, 20.1100, 29.9962



## Tritanopia

19.8087, 20.0698, 24.3026

# Trichromacy



## Original Color

20.8384, 19.9361, 29.9439

## Protanomaly

20.1299, 19.9189, 30.3875

## Deuteranomaly

20.5090, 19.9439, 29.9627

## Tritanomaly

20.1834, 20.0415, 26.0972

# Monochromacy



## Original Color

20.8384, 19.9361, 29.9439

## Achromatopsia

19.4927, 20.5079, 22.3331

## Achromatomaly

19.9208, 20.2950, 25.0577

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 20.8384, 19.9361, 29.9439 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(129, 119, 146)` looks like.

```
.text, #text, p{  
    color:rgb(129, 119, 146)  
}
```

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(129, 119, 146) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(129, 119, 146) }
```

## Border

The CSS property to change the border of an element to XYZ 20.8384, 19.9361, 29.9439 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(129, 119, 146) }
```



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

```
.border{ border-color:rgb(129, 119, 146) }
```

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

Here you see how a box with a 4 pixel `rgb(129, 119, 146)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(129, 119, 146); -webkit-box-  
shadow:4px 4px 4px 4px rgb(129, 119, 146);  
box-shadow:4px 4px 4px 4px rgb(129, 119,  
146) }
```

# Background

The CSS property to change the background color of an element to XYZ 20.8384, 19.9361, 29.9439 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(129, 119, 146) }
```

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

```
.background{ background-color: rgb(129,  
119, 146) }
```

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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