

# Converting Colors

XYZ(20.3432, 21.4051, 23.3056)

Have a look what the booklet for  
XYZ(20.3432, 21.4051, 23.3056)  
contains.

<b>XYZ(20.3023, 21.4827, 23.1552)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	23
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**XYZ(20.3023, 21.4827,  
23.1552)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	7F807F
RGB	127, 128, 127
RGB Percent	50%, 50%, 50%
CMY	0.5020, 0.4980, 0.5020
CMYK	0.01, 0.00, 0.01, 0.50
HSL	120°, 0%, 50%
HSV	120°, 1%, 50%
XYZ	20.3023, 21.4827, 23.1552
YIQ	127.5870, -0.2750, -0.5230

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	127, 128, 128
Decimal	8355967
CIE <sub>Lab</sub>	53.47, -0.57, 0.40
CIE <sub>LCh</sub>	53, 0.699, 144.677
Yxy	21.4827, 0.3126, 0.3308
Android (android.graphics.Color)	4286546047 (0xFF7F807F)
YUV	127.5870, -0.2894, -0.5148
Hunter-Lab	46.3494, -2.9237, 2.8246

# Details

The XYZ color **20.3023, 21.4827, 23.1552** is a dark color, and the websafe version is hex **999999**. A complement of this color would be **20.3885, 21.3269, 23.4650**, and the grayscale version is **20.3765, 21.4376, 23.3456**.

A 20% lighter version of the original color is **43.5845, 46.0463, 49.7707**, and **7.3130, 7.7617, 8.3205** is the 20% darker color. If you saturate the color by 10%, you get **17.7341, 20.2497, 18.9552**, and if you desaturate by 10%, it is **23.2198, 22.8848, 27.9253**.

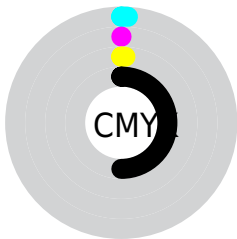
# Distribution



- Red (50%)
- Green (50%)
- Blue (50%)



- Red (50%)
- Yellow (50%)
- Blue (50%)



- Cyan (1%)
- Magenta (0%)
- Yellow (1%)
- Black (50%)



- Cyan (50%)
- Magenta (50%)
- Yellow (50%)
- Black (50%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 20.3023, 21.4827, 23.1552 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 20.3023, 21.4827, 23.1552 by changing the saturation by 10% instead.



■ 20.3023, 21.4827,  
23.1552

■ 20.3023, 21.4827,  
23.1552

246.3495,  
259.8328, 281.6688

■ 12.7245, 13.4773,  
14.5018

■ 43.4235, 45.8895,  
49.5745

■ 7.3148, 7.7580,  
8.3278

■ 59.6977, 63.0597,  
68.1774

■ 3.7078, 3.9405,  
4.2146

■ 79.6013, 84.0536,  
90.9339

■ 1.5382, 1.6403,  
1.7438

103.4998,  
109.2556, 118.2625

■ 0.3516, 0.3846,  
0.3905

131.7585,  
139.0502, 150.5817

■ 0.0000, 0.0000,  
0.0000

164.7428,

173.8216, 188.3102

202.8180,  
213.9543, 231.8664

■ 20.3023, 21.4827,  
23.1552

■ 20.3023, 21.4827,  
23.1552

■ 17.7341, 20.2497,  
18.9552

■ 23.2198, 22.8848,  
27.9253

■ 15.5005, 19.1768,  
15.3026

■ 26.4972, 24.4592,  
33.2841

■ 13.5883, 18.2582,  
12.1753

■ 30.1469, 26.2123,  
39.2514

■ 11.9825, 17.4869,  
9.5491

■ 34.1799, 28.1496,  
45.8454

■ 10.6675, 16.8552,  
7.3980

■ 38.6070, 30.2763,  
53.0836

■ 9.6256, 16.3547,  
5.6937

■ 43.4385, 32.5972,  
60.9828

■ 8.8378, 15.9763,  
4.4047

■ 48.6844, 35.1171,  
69.5593

■ 8.2823, 15.7095,  
3.4955

■ 54.3541, 37.8407,  
78.8286

■ 7.9339, 15.5421,  
2.9249

■ 60.4570, 40.7723,  
88.8061

# Harmonies

## Analogous

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



20.3591, 21.4827, 23.0211



20.3023, 21.4827, 23.1552



20.2767, 21.4827, 23.3531

# Triad

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



20.3023, 21.4827, 23.1552



20.4054, 21.4827, 23.8008



20.5488, 21.4827, 23.2206

# Complementary

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



20.3023, 21.4827, 23.1552



20.3885, 21.3269, 23.4650

# 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.



20.5613, 21.4827, 23.4290



20.3023, 21.4827, 23.1552



20.4784, 21.4827, 23.7648

# Square

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



20.3023, 21.4827, 23.1552



20.3362, 21.4827, 23.7265



20.5355, 21.4827, 23.6284



20.5014, 21.4827, 23.0587



# Rectangle

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



20.3023, 21.4827, 23.1552



20.2807, 21.4827, 23.4948



20.5355, 21.4827, 23.6284



20.5572, 21.4827, 23.2875

# Sweetspot

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



20.3029, 21.4836, 23.1557



36.1244, 38.0056, 41.3881



20.4530, 21.5610, 23.1625



8.4577, 8.8982, 9.6901



62.3462, 65.5931, 71.4309

# Same Dimension

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



20.3029, 21.4836, 23.1557



35.6290, 37.7677, 40.5782



20.3357, 21.4967, 23.3281



4.7768, 5.0593, 5.4439



7.6544, 15.3084, 2.5531



0.0000, 0.0000, 0.0000



# Inverse Universe

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



20.3885, 21.3269, 23.4650



35.8255, 37.4080, 41.2882



20.3556, 21.3138, 23.2917



4.8002, 5.0164, 5.5285



12.6866, 6.0943, 20.7371



0.0000, 0.0000, 0.0000



# Previews

## White Background



This preview shows how the XYZ color 20.3023, 21.4827, 23.1552 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 20.3023, 21.4827, 23.1552 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

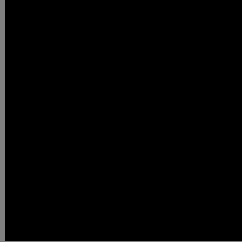
Any Text WCAG AAA × Fail

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



**XYZ 20.3023, 21.4827, 23.1552**

## **Background**



This preview shows how black text looks on a background with the XYZ color 20.3023, 21.4827, 23.1552.



This preview shows how white text looks on a background with the XYZ color 20.3023, 21.4827,



# 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

20.3023, 21.4827, 23.1552

### Protanopia

20.5612, 21.4309, 22.7916

### Deuteranopia

21.9192, 21.5493, 23.4262



## Tritanopia

21.0068, 21.5741, 26.7239

# Trichromacy



## Original Color

20.3023, 21.4827, 23.1552

## Protanomaly

20.4085, 21.3522, 22.7844

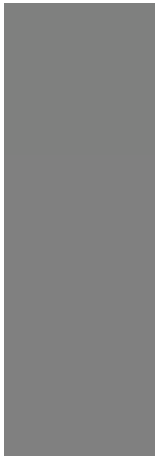
## Deuteranomaly

21.2216, 21.3766, 23.4297

## Tritanomaly

20.7251, 21.4614, 25.2404

# Monochromacy



## Original Color

20.3023, 21.4827, 23.1552

## Achromatopsia

20.5175, 21.5861, 23.5072

## Achromatomaly

20.5175, 21.5861, 23.5072

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 20.3023, 21.4827, 23.1552 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(127, 128, 127)` looks like.

```
.text, #text, p{  
    color:rgb(127, 128, 127)  
}
```

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(127, 128, 127) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(127, 128, 127) }
```

## Border

The CSS property to change the border of an element to XYZ 20.3023, 21.4827, 23.1552 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(127, 128, 127) }
```

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

```
.border{ border-color:rgb(127, 128, 127) }
```

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

Here you see how a box with a 4 pixel `rgb(127, 128, 127)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(127, 128, 127); -webkit-box-  
shadow:4px 4px 4px 4px rgb(127, 128, 127);  
box-shadow:4px 4px 4px 4px rgb(127, 128,  
127) }
```



# Background

The CSS property to change the background color of an element to XYZ 20.3023, 21.4827, 23.1552 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(127, 128, 127) }
```

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

```
.background{ background-color: rgb(127,  
128, 127) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor