

# Converting Colors

XYZ(19.6750, 20.1009, 23.0928)

Have a look what the booklet for  
XYZ(19.6750, 20.1009, 23.0928)  
contains.

<b>XYZ(19.6082, 19.9896, 23.2470)</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> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(19.6082, 19.9896,  
23.2470)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	7F7A80
RGB	127, 122, 128
RGB Percent	50%, 48%, 50%
CMY	0.5020, 0.5216, 0.4980
CMYK	0.01, 0.05, 0.00, 0.50
HSL	290°, 2%, 49%
HSV	290°, 5%, 50%
XYZ	19.6082, 19.9896, 23.2470
YIQ	124.1790, 1.0540, 2.9260

# Conversions

## Conversions Part 2

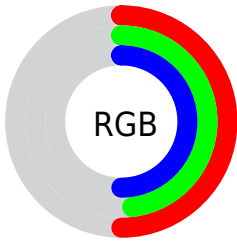
<b>Format</b>	<b>Color</b>
<b>RYB</b>	127, 122, 128
Decimal	8354432
CIELab	51.83, 3.09, -2.60
CIELCh	52, 4.035, 319.963
Yxy	19.9896, 0.3120, 0.3181
Android (android.graphics.Color)	4286544512 (0xFF7F7A80)
YUV	124.1790, 1.8838, 2.4740
Hunter-Lab	44.7097, 0.0421, 0.4687

# Details

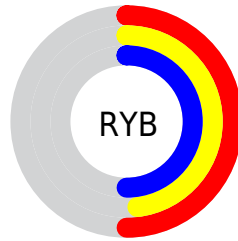
The XYZ color **19.6082, 19.9896, 23.2470** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **19.4012, 21.0550, 21.4548**, and the grayscale version is **19.2120, 20.2125, 22.0114**.

A 20% lighter version of the original color is **42.2989, 43.3116, 49.8466**, and **6.9357, 6.9493, 8.3729** is the 20% darker color. If you saturate the color by 10%, you get **17.8246, 16.8891, 22.7429**, and if you desaturate by 10%, it is **21.6067, 23.5093, 23.8213**.

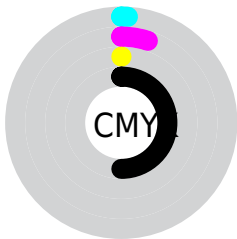
# Distribution



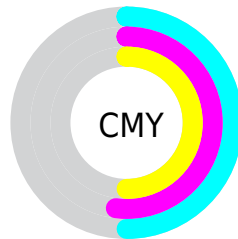
- Red (50%)
- Green (48%)
- Blue (50%)



- Red (50%)
- Yellow (48%)
- Blue (50%)



- Cyan (1%)
- Magenta (5%)
- Yellow (0%)
- Black (50%)



- Cyan (50%)
- Magenta (52%)
- Yellow (50%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 19.6082, 19.9896, 23.2470 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 19.6082, 19.9896, 23.2470 by changing the saturation by 10% instead.



■ 19.6082, 19.9896,  
23.2470

■ 19.6082, 19.9896,  
23.2470

242.6603,  
251.8588, 282.1540

■ 12.2172, 12.3875,  
14.5690

■ 42.2683, 43.3997,  
49.7269

■ 6.9650, 7.0081,  
8.3742

■ 58.2681, 59.9766,  
68.3659

■ 3.4864, 3.4672,  
4.2441

■ 77.8681, 80.3137,  
91.1623

■ 1.4159, 1.3802,  
1.7602

101.4339,  
104.7957, 118.5346

■ 0.2675, 0.2021,  
0.4015

129.3306,  
133.8068, 150.9014

■ 0.0000, 0.0000,  
0.0000

161.9236,

167.7314, 188.6812

199.5784,  
206.9539, 232.2926

■ 19.6082, 19.9896,  
23.2470

■ 19.6082, 19.9896,  
23.2470

■ 17.8246, 16.8891,  
22.7429

■ 21.6067, 23.5093,  
23.8213

■ 16.2462, 14.1892,  
22.3049

■ 23.8260, 27.4609,  
24.4671

■ 14.8648, 11.8737,  
21.9308

■ 26.2739, 31.8597,  
25.1871

■ 13.6714, 9.9240,  
21.6174

■ 28.9575, 36.7194,  
25.9837

■ 12.6558, 8.3205,  
21.3614

■ 31.8831, 42.0532,  
26.8591

■ 11.8073, 7.0413,  
21.1592

■ 35.0573, 47.8738,  
27.8152

■ 11.1135, 6.0621,  
21.0067

■ 38.4861, 54.1932,  
28.8543

■ 10.5607, 5.3552,  
20.8994

■ 42.1755, 61.0233,  
29.9782

■ 10.1292, 4.8813,  
20.8307

■ 46.1310, 68.3753,  
31.1888

# Harmonies

## Analogous

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



19.2694, 19.9896, 23.9523



19.6082, 19.9896, 23.2470



19.7847, 19.9896, 22.1603

# Triad

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



19.6082, 19.9896, 23.2470



19.1370, 19.9896, 19.6213



18.2697, 19.9896, 22.5436

# Complementary

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



19.6082, 19.9896, 23.2470



19.4012, 21.0550, 21.4548

# 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.



18.2354, 19.9896, 21.3750



19.6082, 19.9896, 23.2470



18.7322, 19.9896, 19.7156

# Square

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



19.6082, 19.9896, 23.2470



19.5101, 19.9896, 20.0855



18.4036, 19.9896, 20.3479



18.4979, 19.9896, 23.5362



# Rectangle

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



19.6082, 19.9896, 23.2470



19.7849, 19.9896, 21.3778



18.4036, 19.9896, 20.3479



18.2352, 19.9896, 22.1574

# Sweetspot

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



19.6088, 19.9905, 23.2474



35.7678, 37.3783, 41.2858



19.0185, 19.8878, 23.2587



8.3801, 8.7615, 9.6678



62.3462, 65.5931, 71.4309



8.4577, 8.8982, 9.6901



# Same Dimension

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



19.6088, 19.9905, 23.2474



34.0446, 34.3578, 40.7937



19.6346, 20.0181, 22.6021



4.5474, 4.5818, 5.4580



9.8359, 4.6243, 20.6241



0.0000, 0.0000, 0.0000



# Inverse Universe

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



19.4375, 19.9392, 21.5641



33.6547, 34.2417, 36.9416



19.3777, 21.0291, 22.0742



4.4934, 4.5658, 4.9238



8.9648, 4.6056, 1.1386



0.0000, 0.0000, 0.0000



# Previews

## White Background



This preview shows how the XYZ color 19.6082, 19.9896, 23.2470 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 19.6082, 19.9896, 23.2470 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

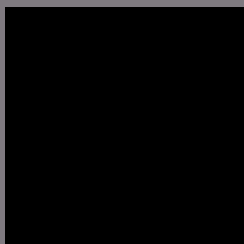
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

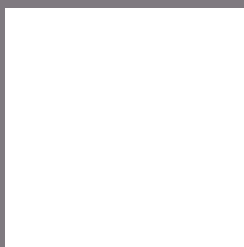
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 19.6082, 19.9896, 23.2470**

## **Background**



This preview shows how black text looks on a background with the XYZ color 19.6082, 19.9896, 23.2470.



This preview shows how white text looks on a background with the XYZ color 19.6082, 19.9896,



# 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

19.6082, 19.9896, 23.2470

### Protanopia

19.2914, 20.0095, 23.2675

### Deuteranopia

20.2856, 19.9780, 23.2090



## Tritanopia

19.8087, 20.0698, 24.3026

# Trichromacy

**Original Color**

19.6082, 19.9896, 23.2470

**Protanomaly**

19.4367, 20.0844, 23.2743

**Deuteranomaly**

20.0937, 20.0586, 23.2347

**Tritanomaly**

19.7412, 20.0428, 23.9473

# Monochromacy

**Original Color**

19.6082, 19.9896, 23.2470

**Achromatopsia**

19.1579, 20.1556, 21.9495

**Achromatomaly**

19.2421, 20.0066, 22.2495

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 19.6082, 19.9896, 23.2470 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, 122, 128)` looks like.

```
.text, #text, p{  
    color:rgb(127, 122, 128)  
}
```

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, 122, 128) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(127, 122, 128) }
```

## Border

The CSS property to change the border of an element to XYZ 19.6082, 19.9896, 23.2470 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".

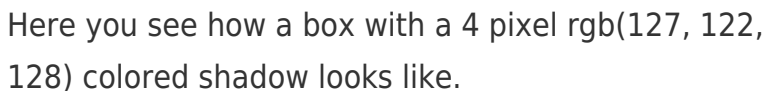
```
.border, #border, table{ border:4px solid rgb(127, 122, 128) }
```



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

```
.border{ border-color:rgb(127, 122, 128) }
```

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



Here you see how a box with a 4 pixel `rgb(127, 122, 128)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(127, 122, 128); -webkit-box-shadow:4px 4px 4px 4px rgb(127, 122, 128); box-shadow:4px 4px 4px 4px rgb(127, 122, 128) }
```

# Background

The CSS property to change the background color of an element to XYZ 19.6082, 19.9896, 23.2470 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(127, 122, 128) }
```

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

```
.background{ background-color: rgb(127,  
122, 128) }
```

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