

# Converting Colors

XYZ(12.5527, 16.8972, 22.8502)

Have a look what the booklet for  
XYZ(12.5527, 16.8972, 22.8502)  
contains.

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# Color

**XYZ(12.5951, 16.9296,  
23.0260)**

# Conversions

## Conversions Part 1

Format	Color
Hex	337D80
RGB	51, 125, 128
RGB Percent	20%, 49%, 50%
CMY	0.8000, 0.5098, 0.4980
CMYK	0.60, 0.02, 0.00, 0.50
HSL	182°, 43%, 35%
HSV	182°, 60%, 50%
XYZ	12.5951, 16.9296, 23.0260
YIQ	103.2160, -45.0670, -14.7550

# Conversions

## Conversions Part 2

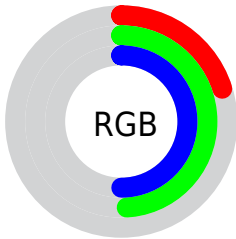
<b>Format</b>	<b>Color</b>
<b>RYB</b>	51, 89, 128
Decimal	3374464
CIELab	48.17, -21.69, -8.52
CIELCh	48, 23.300, 201.438
Yxy	16.9296, 0.2397, 0.3222
Android (android.graphics.Color)	4281564544 (0xFF337D80)
YUV	103.2160, 12.2185, -45.7934
Hunter-Lab	41.1456, -17.3641, -4.3781

# Details

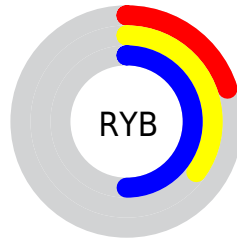
The XYZ color **12.5951, 16.9296, 23.0260** is a dark color, and the websafe version is hex **006666**. A complement of this color would be **10.8190, 7.4667, 4.0032**, and the grayscale version is **12.9269, 13.6001, 14.8105**.

A 20% lighter version of the original color is **30.2047, 38.2412, 49.5054**, and **3.9957, 5.7334, 8.2932** is the 20% darker color. If you saturate the color by 10%, you get **11.9741, 16.5164, 22.9793**, and if you desaturate by 10%, it is **13.3950, 17.4363, 23.0819**.

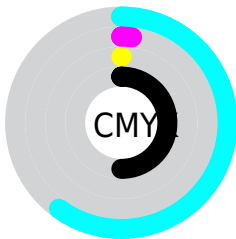
# Distribution



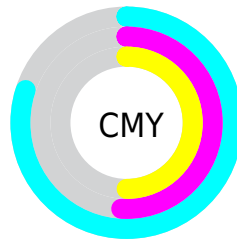
- Red (20%)
- Green (49%)
- Blue (50%)



- Red (20%)
- Yellow (35%)
- Blue (50%)



- Cyan (60%)
- Magenta (2%)
- Yellow (0%)
- Black (50%)



- Cyan (80%)
- Magenta (51%)
- Yellow (50%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 12.5951, 16.9296, 23.0260 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 12.5951, 16.9296, 23.0260 by changing the saturation by 10% instead.



12.5951, 16.9296,  
23.0260

12.5951, 16.9296,  
23.0260

201.9967,  
234.7664, 280.9848

7.2254, 10.1843,  
14.4072

30.1820, 38.2047,  
49.3598

3.6510, 5.5213,  
8.2625

43.1298, 53.5033,  
67.9118

1.5067, 2.5563,  
4.1732

59.3345, 72.4218,  
90.6120

0.3304, 0.9047,  
1.7208

79.1612, 95.3445,  
117.8790

0.0000, 0.0000,  
0.3749

102.9755,  
122.6560, 150.1312

0.0000, 0.0000,  
0.0000

131.1426,

154.7405, 187.7872

164.0278,  
191.9825, 231.2655

■ 12.5951, 16.9296,  
23.0260

■ 12.5951, 16.9296,  
23.0260

■ 11.9741, 16.5164,  
22.9793

■ 13.3950, 17.4363,  
23.0819

■ 11.5156, 16.1870,  
22.9399

■ 14.3857, 18.0414,  
23.1465

■ 11.2025, 15.9332,  
22.9074

■ 15.5796, 18.7517,  
23.2207

■ 10.9813, 15.7285,  
22.8795

■ 16.9877, 19.5729,  
23.3050

■ 18.6203, 20.5104,  
23.3999

■ 20.4871, 21.5690,  
23.5058

■ 22.5969, 22.7534,  
23.6233

■ 24.9583, 24.0680,  
23.7525

■ 27.5796, 25.5170,  
23.8941

# Harmonies

## Analogous

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



12.3957, 16.9296, 16.7535



12.5951, 16.9296, 23.0260



13.6871, 16.9296, 29.1215

# Triad

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



12.5951, 16.9296, 23.0260



19.4847, 16.9296, 26.6875



16.7041, 16.9296, 9.1492

# Complementary

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



12.5951, 16.9296, 23.0260



10.8190, 7.4667, 4.0032

# 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.



18.7613, 16.9296, 10.7444



12.5951, 16.9296, 23.0260



20.4563, 16.9296, 20.2221

# Square

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



12.5951, 16.9296, 23.0260



17.6236, 16.9296, 31.5371



20.1806, 16.9296, 14.4962



14.6501, 16.9296, 9.5795



# Rectangle

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



12.5951, 16.9296, 23.0260



14.8311, 16.9296, 31.8240



20.1806, 16.9296, 14.4962



17.4205, 16.9296, 9.4508

# Sweetspot

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



12.5956, 16.9302, 23.0264



30.3805, 34.7331, 41.0592



9.7404, 16.4048, 6.0902



6.9547, 8.0405, 9.6038



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.



12.5956, 16.9302, 23.0264



20.7681, 28.8600, 40.4322



8.6646, 9.0683, 21.7161



4.4325, 4.8591, 5.5176



10.8888, 15.5962, 22.6864



0.0000, 0.0000, 0.0000



# Inverse Universe

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



13.7880, 8.4378, 20.3048



23.1087, 12.6430, 34.9881



13.3329, 12.4944, 4.8412



4.4912, 4.4096, 5.3909



12.3731, 5.9690, 19.0866

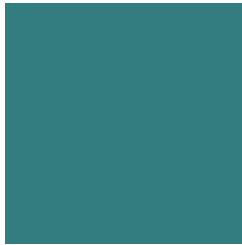


0.0000, 0.0000, 0.0000



# Previews

## White Background



This preview shows how the XYZ color 12.5951, 16.9296, 23.0260 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 12.5951, 16.9296, 23.0260 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 12.5951, 16.9296, 23.0260**

## **Background**



This preview shows how black text looks on a background with the XYZ color 12.5951, 16.9296, 23.0260.



This preview shows how white text looks on a background with the XYZ color 12.5951, 16.9296,



# 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

12.5951, 16.9296, 23.0260

### Protanopia

16.2957, 16.7681, 20.4669

### Deuteranopia

17.1173, 16.7895, 23.8112



## Tritanopia

13.0320, 16.9208, 25.1334

# Trichromacy



## Original Color

12.5951, 16.9296, 23.0260

## Protanomaly

14.3138, 16.4020, 21.4803

## Deuteranomaly

14.7889, 16.4296, 23.5109

## Tritanomaly

12.8407, 16.8381, 24.4031

# Monochromacy



## Original Color

12.5951, 16.9296, 23.0260

## Achromatopsia

12.8919, 13.5633, 14.7705

## Achromatomaly

12.2652, 14.4235, 17.4668

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 12.5951, 16.9296, 23.0260 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(51, 125, 128)` looks like.

```
.text, #text, p{  
    color:rgb(51, 125, 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(51, 125, 128) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 125, 128) }
```

## Border

The CSS property to change the border of an element to XYZ 12.5951, 16.9296, 23.0260 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(51, 125, 128) }
```



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

```
.border{ border-color:rgb(51, 125, 128) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 125, 128)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 125, 128); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 125, 128);  
box-shadow:4px 4px 4px 4px rgb(51, 125,  
128) }
```

# Background

The CSS property to change the background color of an element to XYZ 12.5951, 16.9296, 23.0260 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 125, 128) }
```

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

```
.background{ background-color: rgb(51, 125,  
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](#).

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