

# Converting Colors

XYZ(9.5200, 1.1260, 12.7257)

Have a look what the booklet for  
XYZ(9.5200, 1.1260, 12.7257)  
contains.

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# Color

**XYZ(11.8588, 5.8248,  
13.5960)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	830068
RGB	131, 0, 104
RGB Percent	51%, 0%, 41%
CMY	0.4863, 0.9999, 0.5922
CMYK	0.00, 1.00, 0.21, 0.49
HSL	312°, 100%, 26%
HSV	312°, 100%, 51%
XYZ	11.8588, 5.8248, 13.5960
YIQ	51.0250, 44.6920, 60.1160

# Conversions

## Conversions Part 2

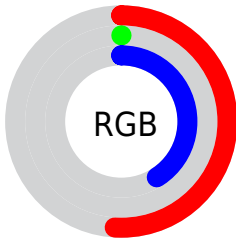
<b>Format</b>	<b>Color</b>
<b>RYB</b>	131, 0, 104
Decimal	8585320
CIELab	28.97, 56.03, -22.44
CIElCh	29, 60.352, 338.175
Yxy	5.8248, 0.3791, 0.1862
Android (android.graphics.Color)	4286775400 (0xFF830068)
YUV	51.0250, 26.1167, 70.1381
Hunter-Lab	24.1346, 45.4723, -16.5062

# Details

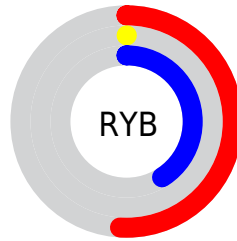
The XYZ color **11.8588, 5.8248, 13.5960** is a dark color, and the websafe version is hex **990066**. A complement of this color would be **8.3145, 16.3120, 3.7480**, and the grayscale version is **3.1174, 3.2798, 3.5717**.

A 20% lighter version of the original color is **28.9087, 17.5644, 32.8770**, and **3.7744, 1.8633, 3.9021** is the 20% darker color. If you saturate the color by 10%, you get **11.8587, 5.8248, 13.5953**, and if you desaturate by 10%, it is **12.1436, 6.1713, 14.3786**.

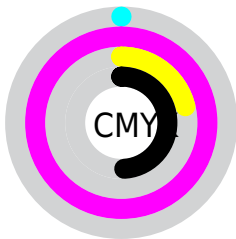
# Distribution



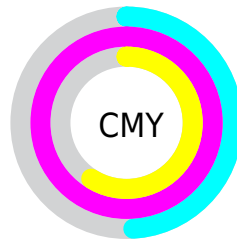
- Red (51%)
- Green (0%)
- Blue (41%)



- Red (51%)
- Yellow (0%)
- Blue (41%)



- Cyan (0%)
- Magenta (100%)
- Yellow (21%)
- Black (49%)



- Cyan (49%)
- Magenta (100%)
- Yellow (59%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 11.8588, 5.8248, 13.5960 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 11.8588, 5.8248, 13.5960 by changing the saturation by 10% instead.



■ 11.8588, 5.8248,  
13.5960

■ 11.8588, 5.8248,  
13.5960

197.2573,  
157.5070, 226.0432

■ 6.7191, 2.7388,  
7.7047

■ 28.8568, 17.5665,  
33.0772

■ 3.3318, 0.9970,  
3.8215

■ 41.4458, 26.9911,  
47.5042

■ 1.3316, 0.0000,  
1.5280

■ 57.2486, 39.2973,  
65.6134

■ 0.2067, 0.0000,  
0.2386

■ 76.6306, 54.8696,  
87.8235

■ 0.0000, 0.0000,  
0.0000

■ 99.9571, 74.0923,  
114.5530

■ 127.5935, 97.3498,

146.2204

159.9051,  
125.0266, 183.2443

11.8588, 5.8248,  
13.5960

11.8588, 5.8248,  
13.5960

11.8587, 5.8248,  
13.5953

12.1436, 6.1713,  
14.3786

12.5162, 6.6864,  
15.2123

13.0263, 7.4692,  
16.1139

13.6898, 8.5516,  
17.0889

14.5205, 9.9613,  
18.1421

■ 15.5308, 11.7227,  
19.2778

■ 16.7316, 13.8577,  
20.4998

■ 18.1331, 16.3867,  
21.8117

■ 19.7447, 19.3284,  
23.2169

# Harmonies

## Analogous

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



9.3874, 5.8248, 26.5647



11.8588, 5.8248, 13.5960



12.3953, 5.8248, 4.4606

# Triad

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



11.8588, 5.8248, 13.5960



4.8330, 5.8248, 0.0000



2.3847, 5.8248, 20.6074

# Complementary

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



11.8588, 5.8248, 13.5960



8.3145, 16.3120, 3.7480

# 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.



1.8329, 5.8248, 8.6901



11.8588, 5.8248, 13.5960



2.9156, 5.8248, 0.1746

# Square

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



11.8588, 5.8248, 13.5960



7.6902, 5.8248, 0.0000



1.9894, 5.8248, 2.2756



3.8276, 5.8248, 32.4217



# Rectangle

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



11.8588, 5.8248, 13.5960



11.4610, 5.8248, 1.6044



1.9894, 5.8248, 2.2756



2.1143, 5.8248, 16.2210

# Sweetspot

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



11.8590, 5.8251, 13.5961



29.7999, 24.5249, 36.5517



4.5283, 1.8614, 21.5935



6.7498, 5.3739, 8.3226



64.0503, 67.3860, 73.3833



8.9945, 9.4630, 10.3052



# Same Dimension

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



11.8590, 5.8251, 13.5961



21.1798, 10.4082, 24.0487



9.7317, 4.9742, 2.3936



4.8179, 4.7468, 5.6532



11.6740, 5.7339, 13.3875



0.0430, 0.0209, 0.0599



# Inverse Universe

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



11.8590, 5.8251, 13.5961



21.1798, 10.4082, 24.0487



10.0354, 17.0004, 12.8101



4.8179, 4.7468, 5.6532



11.6740, 5.7339, 13.3875



0.0430, 0.0209, 0.0599



# Previews

## White Background



This preview shows how the XYZ color 11.8588, 5.8248, 13.5960 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

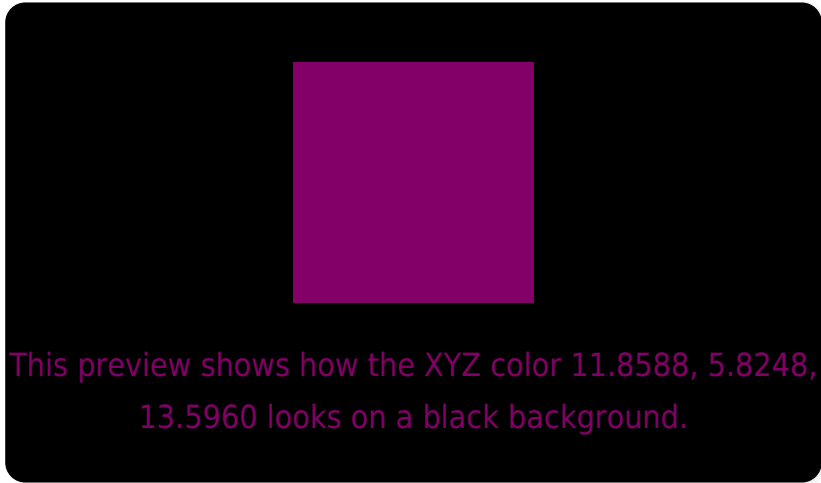
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass



# Black Background



## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

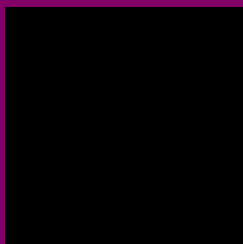
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**XYZ 11.8588, 5.8248, 13.5960**

## **Background**



This preview shows how black text looks on a background with the XYZ color 11.8588, 5.8248, 13.5960.



This preview shows how white text looks on a background with the XYZ color 11.8588, 5.8248,



# 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

11.8588, 5.8248, 13.5960

### Protanopia

7.3946, 6.3628, 28.4422

### Deuteranopia

6.5253, 6.4595, 12.2122



## Tritanopia

9.8332, 6.1959, 2.9632

# Trichromacy



## Original Color

11.8588, 5.8248, 13.5960

## Protanomaly

6.2163, 4.0684, 21.9304

## Deuteranomaly

7.2631, 4.8716, 12.6141

## Tritanomaly

10.2256, 5.7096, 5.5641

# Monochromacy



## Original Color

11.8588, 5.8248, 13.5960

## Achromatopsia

3.1466, 3.3105, 3.6051

## Achromatomaly

4.9303, 3.1807, 6.1484

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 11.8588, 5.8248, 13.5960 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(131, 0, 104)` looks like.

```
.text, #text, p{  
    color:rgb(131, 0, 104)  
}
```

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(131, 0, 104) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(131, 0, 104) }
```

## Border

The CSS property to change the border of an element to XYZ 11.8588, 5.8248, 13.5960 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(131, 0, 104) }
```



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

```
.border{ border-color:rgb(131, 0, 104) }
```

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

Here you see how a box with a 4 pixel `rgb(131, 0, 104)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(131, 0, 104); -webkit-box-  
shadow:4px 4px 4px 4px rgb(131, 0, 104);  
box-shadow:4px 4px 4px 4px rgb(131, 0,  
104) }
```

# Background

The CSS property to change the background color of an element to XYZ 11.8588, 5.8248, 13.5960 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(131, 0, 104) }
```

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

```
.background{ background-color: rgb(131, 0,  
104) }
```

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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