

# Converting Colors

XYZ(12.7620, 5.6042, 44.6433)

Have a look what the booklet for  
XYZ(12.7620, 5.6042, 44.6433)  
contains.

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# Color

**XYZ(12.7579, 5.6015,  
44.6648)**

# Conversions

## Conversions Part 1

Format	Color
Hex	5B00B6
RGB	91, 0, 182
RGB Percent	36%, 0%, 71%
CMY	0.6431, 1.0000, 0.2863
CMYK	0.50, 1.00, 0.00, 0.29
HSL	270°, 100%, 36%
HSV	270°, 100%, 71%
XYZ	12.7579, 5.6015, 44.6648
YIQ	47.9570, -4.1860, 75.8940

# Conversions

## Conversions Part 2

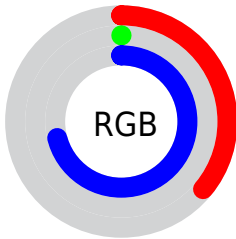
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	91, 0, 182
Decimal	5963958
CIE <sub>Lab</sub>	28.38, 64.70, -72.08
CIE <sub>LCh</sub>	28, 96.856, 311.910
Yxy	5.6015, 0.2024, 0.0889
Android (android.graphics.Color)	4284154038 (0xFF5B00B6)
YUV	47.9570, 66.0832, 37.7487
Hunter-Lab	23.6675, 54.8019, -95.3236

# Details

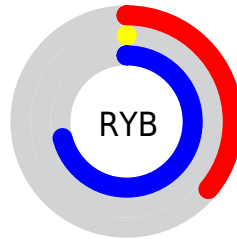
The XYZ color **12.7579, 5.6015, 44.6648** is a dark color, and the websafe version is hex **6600CC**. A complement of this color would be **21.0420, 35.6800, 5.7779**, and the grayscale version is **2.7362, 2.8787, 3.1349**.

A 20% lighter version of the original color is **30.4706, 17.0675, 83.3497**, and **4.0619, 1.6515, 20.1834** is the 20% darker color. If you saturate the color by 10%, you get **12.7584, 5.6018, 44.6650**, and if you desaturate by 10%, it is **13.9302, 6.5318, 44.7827**.

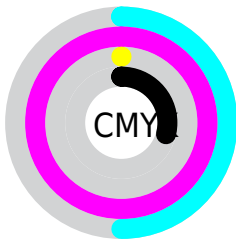
# Distribution



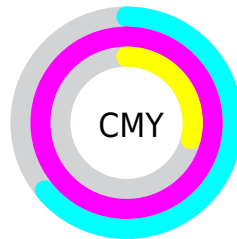
- Red (36%)
- Green (0%)
- Blue (71%)



- Red (36%)
- Yellow (0%)
- Blue (71%)



- Cyan (50%)
- Magenta (100%)
- Yellow (0%)
- Black (29%)



- Cyan (64%)
- Magenta (100%)
- Yellow (29%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 12.7579, 5.6015, 44.6648 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 12.7579, 5.6015, 44.6648 by changing the saturation by 10% instead.



■ 12.7579, 5.6015,  
44.6648

■ 12.7579, 5.6015,  
44.6648

203.0293,  
155.4778, 381.5348

■ 7.3379, 2.6043,  
30.8525

■ 30.4732, 17.0985,  
83.5303

■ 3.7225, 0.9288,  
20.2290

■ 43.4992, 26.3672,  
109.4205

■ 1.5464, 0.0000,  
12.3759

■ 59.7912, 38.4951,  
140.1738

■ 0.3571, 0.0000,  
6.8746

■ 79.7146, 53.8667,  
176.2087

■ 0.0000, 0.0000,  
3.3065

■ 103.6348, 72.8664,  
217.9436


■ 0.0000, 0.0000,  
1.2532

■ 131.9170, 95.8786,

■ 0.0000, 0.0000,

265.7973

0.0230

 164.9268,  
123.2876, 320.1882

 0.0000, 0.0000,  
0.0000

 12.7579, 5.6015,  
44.6648

 12.7579, 5.6015,  
44.6648


 12.7584, 5.6018,  
44.6650

 13.9302, 6.5318,  
44.7827

 15.4184, 7.9277,  
44.9737

 17.3033, 9.9448,  
45.2637

 19.6255, 12.6593,  
45.6653

 22.4198, 16.1360,  
46.1891

■ 25.7170, 20.4321,  
46.8445

■ 29.5451, 25.5988,  
47.6401

■ 33.9298, 31.6835,  
48.5834

■ 38.8949, 38.7299,  
49.6818

# Harmonies

## Analogous

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



7.1733, 5.6015, 68.4081



12.7579, 5.6015, 44.6648



17.3033, 5.6015, 16.4868

# Triad

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



12.7579, 5.6015, 44.6648



8.2504, 5.6015, 0.0000



0.6731, 5.6015, 12.2353

# Complementary

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



12.7579, 5.6015, 44.6648



21.0420, 35.6800, 5.7779

# 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.



0.7391, 5.6015, 1.3639



12.7579, 5.6015, 44.6648



3.8236, 5.6015, 0.0000

# Square

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



12.7579, 5.6015, 44.6648



13.8941, 5.6015, 0.0000



1.5434, 5.6015, 0.0000



1.2888, 5.6015, 38.3317



# Rectangle

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



12.7579, 5.6015, 44.6648



18.1851, 5.6015, 5.3594



1.5434, 5.6015, 0.0000



0.6235, 5.6015, 6.9038

# Sweetspot

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



12.7584, 5.6018, 44.6650



53.1885, 45.8954, 86.2911



12.1846, 10.8596, 45.7101



11.0813, 9.2310, 18.9193



88.6918, 93.3107, 101.6153



17.8044, 18.7317, 20.3988



# Same Dimension

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



12.7584, 5.6018, 44.6650



22.8583, 10.0155, 80.9641



27.7350, 13.3225, 45.3659



8.9374, 8.9341, 11.3328



9.0865, 3.9955, 31.5454



0.3917, 0.1776, 1.1154



# Inverse Universe

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



21.1796, 10.7004, 10.8457



38.2791, 19.3519, 19.0352



16.7280, 33.4561, 5.5760



9.1868, 9.0851, 10.3312



14.9903, 7.5699, 7.8359

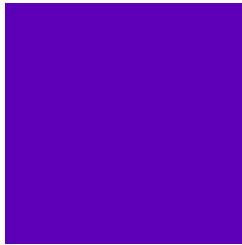


0.5597, 0.2794, 0.4408



# Previews

## White Background



This preview shows how the XYZ color 12.7579, 5.6015, 44.6648 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

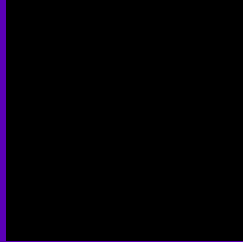
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**XYZ 12.7579, 5.6015, 44.6648**

## **Background**



This preview shows how black text looks on a background with the XYZ color 12.7579, 5.6015, 44.6648.



This preview shows how white text looks on a background with the XYZ color 12.7579, 5.6015,



# 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

12.7579, 5.6015, 44.6648

### Protanopia

6.8149, 5.9374, 25.9862

### Deuteranopia

5.7686, 6.0152, 18.9462



## Tritanopia

5.5173, 6.0344, 7.8951

# Trichromacy



## Original Color

12.7579, 5.6015, 44.6648

## Protanomaly

7.4918, 4.4514, 31.9168

## Deuteranomaly

6.5621, 4.2605, 26.4631

## Tritanomaly

6.7054, 4.4923, 16.7333

# Monochromacy



## Original Color

12.7579, 5.6015, 44.6648

## Achromatopsia

2.8094, 2.9557, 3.2187

## Achromatomaly

4.7620, 2.9330, 11.6244

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 12.7579, 5.6015, 44.6648 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(91, 0, 182)` looks like.

```
.text, #text, p{  
    color:rgb(91, 0, 182)  
}
```

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(91, 0, 182) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(91, 0, 182) }
```

## Border

The CSS property to change the border of an element to XYZ 12.7579, 5.6015, 44.6648 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(91, 0, 182) }
```



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

```
.border{ border-color:rgb(91, 0, 182) }
```

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

Here you see how a box with a 4 pixel `rgb(91, 0, 182)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(91, 0, 182); -webkit-box-  
shadow:4px 4px 4px 4px rgb(91, 0, 182);  
box-shadow:4px 4px 4px 4px rgb(91, 0, 182)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 12.7579, 5.6015, 44.6648 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(91, 0, 182) }
```

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

```
.background{ background-color: rgb(91, 0,  
182) }
```

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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