

# Converting Colors

XYZ(37.8540, 27.6498, 65.0641)

Have a look what the booklet for  
XYZ(37.8540, 27.6498, 65.0641)  
contains.

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# Color

**XYZ(37.8863, 27.6161,  
64.9616)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	B875D3
RGB	184, 117, 211
RGB Percent	72%, 46%, 83%
CMY	0.2784, 0.5412, 0.1725
CMYK	0.13, 0.45, 0.00, 0.17
HSL	283°, 52%, 64%
HSV	283°, 45%, 83%
XYZ	37.8863, 27.6161, 64.9616
YIQ	147.7490, 9.7580, 43.4380

# Conversions

## Conversions Part 2

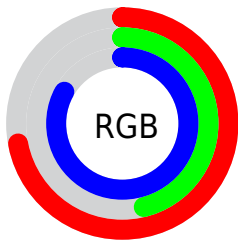
<b>Format</b>	<b>Color</b>
<b>RYB</b>	184, 117, 211
Decimal	12088787
CIELab	59.54, 42.37, -38.13
CIElCh	60, 56.999, 318.017
Yxy	27.6161, 0.2904, 0.2117
Android (android.graphics.Color)	4290278867 (0xFFB875D3)
YUV	147.7490, 31.1827, 31.7921
Hunter-Lab	52.5510, 36.7241, -36.5064

# Details

The XYZ color **37.8863, 27.6161, 64.9616** is a light color, and the websafe version is hex **9966CC**. A complement of this color would be **38.0076, 53.8028, 25.2126**, and the grayscale version is **27.9162, 29.3701, 31.9840**.

A 20% lighter version of the original color is **68.8885, 55.0466, 101.6020**, and **17.0022, 10.9639, 32.6726** is the 20% darker color. If you saturate the color by 10%, you get **34.2786, 22.5094, 64.1665**, and if you desaturate by 10%, it is **42.1122, 33.8652, 65.9455**.

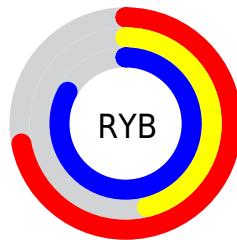
# Distribution



Red (72%)

Green (46%)

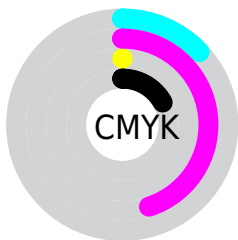
Blue (83%)



Red (72%)

Yellow (46%)

Blue (83%)

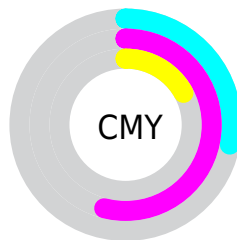


Cyan (13%)

Magenta (45%)

Yellow (0%)

Black (17%)



Cyan (28%)

Magenta (54%)

Yellow (17%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.8863, 27.6161, 64.9616 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 37.8863, 27.6161, 64.9616 by changing the saturation by 10% instead.



37.8863, 27.6161,  
64.9616

37.8863, 27.6161,  
64.9616

328.4213,  
290.6279, 460.9564

26.0713, 18.0365,  
46.9788

71.2389, 55.8709,  
113.6074

17.0099, 10.9762,  
32.6647

93.5071, 75.3149,  
145.1075

10.3369, 6.0508,  
21.6007

119.9904, 98.8159,  
181.9504

5.6869, 2.8760,  
13.3683

151.0542,  
126.7581, 224.5547

2.6945, 1.0673,  
7.5489

187.0639,  
159.5260, 273.3389

0.9943, 0.0000,  
3.7241

228.3847,

0.0000, 0.0000,

197.5040, 328.7215

1.4752

275.3820,  
241.0765, 391.1212

■ 0.0000, 0.0000,  
0.1994

■ 0.0000, 0.0000,  
0.0000

■ 37.8863, 27.6161,  
64.9616

■ 37.8863, 27.6161,  
64.9616

■ 34.2786, 22.5094,  
64.1665

■ 42.1122, 33.8652,  
65.9455

■ 31.2478, 18.4659,  
63.5458


■ 46.9882, 41.3220,  
67.1278


■ 28.7515, 15.4016,  
63.0858


■ 52.5475, 50.0508,  
68.5196

■ 26.7400, 13.2178,  
62.7704


■ 58.8201, 60.1105,  
70.1308


 25.1526, 11.7947,  
62.5793


 65.8340, 71.5561,  
71.9703

 24.4083, 11.2247,  
62.5085

 73.6157, 84.4395,  
74.0469

 79.0158, 92.4609,  
75.3106

 80.9549, 93.4606,  
75.4013

 82.9619, 94.4952,  
75.4953

# Harmonies

## Analogous

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



30.7469, 27.6161, 85.4038



37.8863, 27.6161, 64.9616



42.1735, 27.6161, 39.0330

# Triad

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



37.8863, 27.6161, 64.9616



29.2155, 27.6161, 5.6244



15.2006, 27.6161, 44.0074

# Complementary

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



37.8863, 27.6161, 64.9616



38.0076, 53.8028, 25.2126

# 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.



14.9412, 27.6161, 22.5949



37.8863, 27.6161, 64.9616



22.2113, 27.6161, 5.9836

# Square

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



37.8863, 27.6161, 64.9616



36.5909, 27.6161, 9.2347



17.2770, 27.6161, 10.6380



18.0651, 27.6161, 69.9973



# Rectangle

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



37.8863, 27.6161, 64.9616



42.4012, 27.6161, 24.8925



17.2770, 27.6161, 10.6380



14.8277, 27.6161, 35.9182

# Sweetspot

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



37.8873, 27.6173, 64.9622



81.9547, 78.8815, 105.5139



29.2511, 28.7983, 65.6453



17.1068, 16.1930, 22.4739



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

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



37.8873, 27.6173, 64.9622



53.1207, 35.2433, 98.6106



42.7627, 30.3872, 53.5977



11.9662, 11.8314, 14.8967



14.8359, 6.8285, 37.7286



0.9057, 0.4211, 2.1131



# Inverse Universe

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



38.2602, 28.5862, 29.8879



54.1678, 37.1486, 36.9662



35.0610, 52.1430, 31.4360



11.9464, 11.8633, 12.9934



16.7530, 8.5740, 3.6053

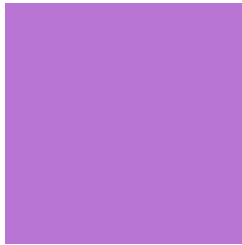


0.9711, 0.4932, 0.3829



# Previews

## White Background



This preview shows how the XYZ color 37.8863, 27.6161, 64.9616 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 37.8863, 27.6161, 64.9616 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 37.8863, 27.6161, 64.9616**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.8863, 27.6161, 64.9616.



This preview shows how white text looks on a background with the XYZ color 37.8863, 27.6161,



# 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

37.8863, 27.6161, 64.9616

### Protanopia

30.2554, 28.0705, 79.4248

### Deuteranopia

28.5593, 27.7953, 62.2523



## Tritanopia

30.6647, 27.4844, 29.6754

# Trichromacy



## Original Color

37.8863, 27.6161, 64.9616



## Protanomaly

31.8592, 27.1186, 74.0763



## Deuteranomaly

31.1004, 27.1688, 63.2794



## Tritanomaly

33.0174, 27.4709, 40.6080

# Monochromacy



## Original Color

37.8863, 27.6161, 64.9616



## Achromatopsia

28.1479, 29.6138, 32.2495



## Achromatomaly

30.9943, 28.4087, 42.3779

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.8863, 27.6161, 64.9616 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(184, 117, 211)` looks like.

```
.text, #text, p{  
    color:rgb(184, 117, 211)  
}
```

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(184, 117, 211) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(184, 117, 211) }
```

## Border

The CSS property to change the border of an element to XYZ 37.8863, 27.6161, 64.9616 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(184, 117, 211) }
```



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

```
.border{ border-color:rgb(184, 117, 211) }
```

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

Here you see how a box with a 4 pixel `rgb(184, 117, 211)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(184, 117, 211); -webkit-box-  
shadow:4px 4px 4px 4px rgb(184, 117, 211);  
box-shadow:4px 4px 4px 4px rgb(184, 117,  
211) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.8863, 27.6161, 64.9616 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(184, 117, 211) }
```

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

```
.background{ background-color: rgb(184,  
117, 211) }
```

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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