

# Converting Colors

XYZ(37.5771, 21.7563, 59.2038)

Have a look what the booklet for  
XYZ(37.5771, 21.7563, 59.2038)  
contains.

<b>XYZ(37.7050, 21.8137, 59.3499)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(37.7050, 21.8137,  
59.3499)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CA4ACC
RGB	202, 74, 204
RGB Percent	79%, 29%, 80%
CMY	0.2078, 0.7098, 0.2000
CMYK	0.01, 0.64, 0.00, 0.20
HSL	299°, 56%, 55%
HSV	299°, 64%, 80%
XYZ	37.7050, 21.8137, 59.3499
YIQ	127.0920, 34.5580, 67.5660

# Conversions

## Conversions Part 2

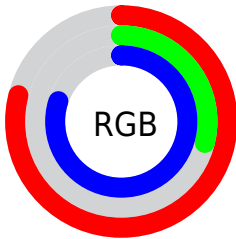
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	202, 74, 204
Decimal	13257420
CIE Lab	53.83, 66.40, -42.98
CIE LCh	54, 79.097, 327.086
Yxy	21.8137, 0.3172, 0.1835
Android (android.graphics.Color)	4291447500 (0xFFCA4ACC)
YUV	127.0920, 37.9156, 65.6943
Hunter-Lab	46.7051, 62.3688, -42.6483

# Details

The XYZ color **37.7050, 21.8137, 59.3499** is a light color, and the websafe version is hex **CC33CC**. The color can be described as light muted magenta. A complement of this color would be **25.8100, 45.2171, 13.8469**, and the grayscale version is **20.0709, 21.1162, 22.9955**.

A 20% lighter version of the original color is **67.4063, 44.7126, 99.6854**, and **16.9264, 8.0992, 29.1050** is the 20% darker color. If you saturate the color by 10%, you get **36.4728, 19.4744, 58.9636**, and if you desaturate by 10%, it is **39.3805, 25.0379, 59.8842**.

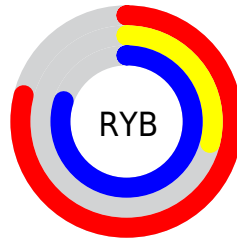
# Distribution



Red (79%)

Green (29%)

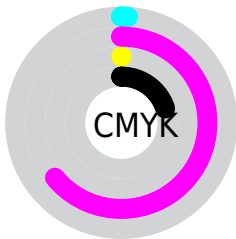
Blue (80%)



Red (79%)

Yellow (29%)

Blue (80%)

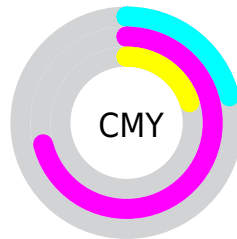


Cyan (1%)

Magenta (64%)

Yellow (0%)

Black (20%)



Cyan (21%)

Magenta (71%)


Yellow (20%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.7050, 21.8137, 59.3499 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 37.7050, 21.8137, 59.3499 by changing the saturation by 10% instead.




 37.7050, 21.8137,  
59.3499


 37.7050, 21.8137,  
59.3499

327.6556,  
261.5718, 439.9353


 25.9300, 13.7201,  
42.4730


 70.9626, 46.4379,  
105.4202


 16.9037, 7.9262,  
29.1435

 93.1758, 63.7372,  
135.4506


 10.2607, 4.0478,  
18.9429


 119.5992, 84.8740,  
170.7026

 5.6357, 1.7003,  
11.4526

 150.5981,  
110.2324, 211.5947

 2.6634, 0.4239,  
6.2542

 186.5378,  
140.1971, 258.5455

 0.9784, 0.0000,  
2.9290

227.7837,

 0.0000, 0.0000,

175.1522, 311.9735

1.0585

274.7012,  
215.4824, 372.2973

■ 0.0000, 0.0000,  
0.0000

■ 37.7050, 21.8137,  
59.3499

■ 37.7050, 21.8137,  
59.3499

■ 36.4728, 19.4744,  
58.9636

■ 39.3805, 25.0379,  
59.8842

■ 35.6368, 17.9282,  
58.7092

■ 41.5354, 29.2212,  
60.5781

■ 35.1443, 17.0685,  
58.5692

■ 44.2048, 34.4334,  
61.4435

■ 34.9499, 16.7583,  
58.5196

■ 47.4199, 40.7369,  
62.4907

■ 51.2097, 48.1891,  
63.7294

■ 55.6006, 56.8436,  
65.1685

■ 60.6178, 66.7504,  
66.8162

■ 66.2850, 77.9568,  
68.6806

■ 71.7876, 88.8339,  
70.4901

# Harmonies

## Analogous

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



29.1019, 21.8137, 94.5619



37.7050, 21.8137, 59.3499



41.7170, 21.8137, 26.2117

# Triad

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



37.7050, 21.8137, 59.3499



21.5754, 21.8137, 0.9658



9.3198, 21.8137, 52.0784

# Complementary

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



37.7050, 21.8137, 59.3499



25.8100, 45.2171, 13.8469

# 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.



8.3184, 21.8137, 21.4501



37.7050, 21.8137, 59.3499



14.1457, 21.8137, 1.6985

# Square

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



37.7050, 21.8137, 59.3499



30.9438, 21.8137, 2.1424



9.8159, 21.8137, 6.3145



13.0593, 21.8137, 88.7088



# Rectangle

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



37.7050, 21.8137, 59.3499



40.6108, 21.8137, 12.4816



9.8159, 21.8137, 6.3145



8.7051, 21.8137, 40.3308

# Sweetspot

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



37.7058, 21.8147, 59.3503



81.2204, 72.7469, 104.3685



16.3199, 11.0083, 58.3917



17.0072, 14.8293, 22.2159



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.



37.7058, 21.8147, 59.3503



59.8816, 31.2781, 97.4889



32.1714, 19.6638, 27.3653



11.6698, 11.3946, 14.1547



22.0056, 10.5518, 36.8332



1.1408, 0.5472, 1.9004



# Inverse Universe

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



28.6557, 18.2575, 8.8519



43.8500, 24.9911, 7.3900



28.9210, 46.4434, 31.0455



11.2192, 11.2164, 11.6890



15.6875, 8.0856, 0.8070



0.8118, 0.4181, 0.0548



# Previews

## White Background



This preview shows how the XYZ color 37.7050, 21.8137, 59.3499 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

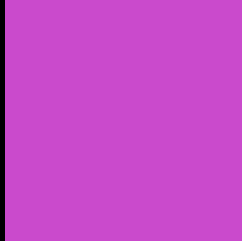
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the XYZ color 37.7050, 21.8137, 59.3499 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

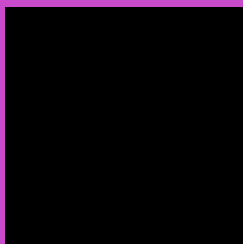
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 37.7050, 21.8137, 59.3499**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.7050, 21.8137, 59.3499.



This preview shows how white text looks on a background with the XYZ color 37.7050, 21.8137,



# 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

37.7050, 21.8137, 59.3499

### Protanopia

26.2144, 22.3891, 94.2067

### Deuteranopia

22.7376, 22.2373, 54.7236



## Tritanopia

29.0517, 21.7049, 17.4101

# Trichromacy



## Original Color

37.7050, 21.8137, 59.3499



## Protanomaly

26.0687, 19.3744, 80.2076



## Deuteranomaly

25.8150, 20.2487, 55.9739



## Tritanomaly

31.3669, 21.2700, 28.8379

# Monochromacy



## Original Color

37.7050, 21.8137, 59.3499



## Achromatopsia

20.1725, 21.2231, 23.1119



## Achromatomaly

24.6054, 19.9617, 33.5665

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.7050, 21.8137, 59.3499 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(202, 74, 204)` looks like.

```
.text, #text, p{  
    color:rgb(202, 74, 204)  
}
```

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(202, 74, 204) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(202, 74, 204) }
```

## Border

The CSS property to change the border of an element to XYZ 37.7050, 21.8137, 59.3499 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(202, 74, 204) }
```



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

```
.border{ border-color:rgb(202, 74, 204) }
```

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

Here you see how a box with a 4 pixel `rgb(202, 74, 204)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(202, 74, 204); -webkit-box-  
shadow:4px 4px 4px 4px rgb(202, 74, 204);  
box-shadow:4px 4px 4px 4px rgb(202, 74,  
204) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.7050, 21.8137, 59.3499 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(202, 74, 204) }
```

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

```
.background{ background-color: rgb(202, 74,  
204) }
```

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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