

# Converting Colors

XYZ(37.3749, 22.5603, 70.9072)

Have a look what the booklet for  
XYZ(37.3749, 22.5603, 70.9072)  
contains.

<b>XYZ(37.2859, 22.5363, 70.7914)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(37.2859, 22.5363,  
70.7914)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	BD55DD
RGB	189, 85, 221
RGB Percent	74%, 33%, 87%
CMY	0.2588, 0.6666, 0.1333
CMYK	0.14, 0.62, 0.00, 0.13
HSL	286°, 67%, 60%
HSV	286°, 62%, 87%
XYZ	37.2859, 22.5363, 70.7914
YIQ	131.6000, 18.3280, 64.3440

# Conversions

## Conversions Part 2

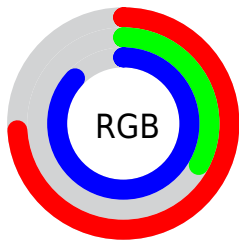
Format	Color
<b>RYB</b>	189, 85, 221
Decimal	12408285
CIELab	54.59, 61.75, -51.55
CIELCh	55, 80.439, 320.141
Yxy	22.5363, 0.2855, 0.1725
Android (android.graphics.Color)	4290598365 (0xFFBD55DD)
YUV	131.6000, 44.0742, 50.3398
Hunter-Lab	47.4724, 57.1212, -55.1832

# Details

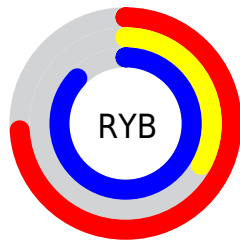
The XYZ color **37.2859, 22.5363, 70.7914** is a light color, and the websafe version is hex **CC66FF**. The color can be described as light muted purple. A complement of this color would be **34.8330, 56.1513, 17.5976**, and the grayscale version is **21.6314, 22.7579, 24.7834**.

A 20% lighter version of the original color is **66.1395, 45.9326, 99.9877**, and **16.6339, 8.2754, 36.3179** is the 20% darker color. If you saturate the color by 10%, you get **34.5432, 18.9308, 70.2404**, and if you desaturate by 10%, it is **40.6198, 27.2537, 71.5266**.

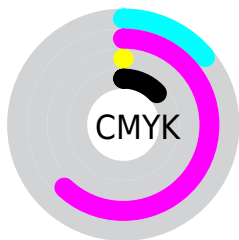
# Distribution



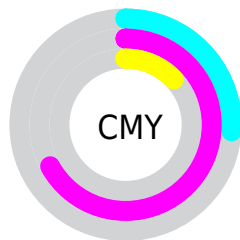
- Red (74%)
- Green (33%)
- Blue (87%)



- Red (74%)
- Yellow (33%)
- Blue (87%)



- Cyan (14%)
- Magenta (62%)
- Yellow (0%)
- Black (13%)




- Cyan (26%)
- Magenta (67%)
- Yellow (13%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.2859, 22.5363, 70.7914 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 37.2859, 22.5363, 70.7914 by changing the saturation by 10% instead.




 37.2859, 22.5363,  
70.7914


 37.2859, 22.5363,  
70.7914


325.8807,  
265.3343, 482.1879

 25.6036, 14.2515,  
51.6912


 70.3233, 47.6308,  
122.0283

 16.6585, 8.2958,  
36.3784


 92.4091, 65.2093,  
155.0021

 10.0851, 4.2848,  
24.4346


 118.6934, 86.6544,  
193.4376

 5.5181, 1.8341,  
15.4412

 149.5416,  
112.3507, 237.7532

 2.5922, 0.5083,  
8.9795

185.3191,  
142.6824, 288.3674

 0.9420, 0.0000,  
4.6312

226.3912,

 0.0000, 0.0000,

178.0340, 345.6990

1.9776

273.1233,  
218.7898, 410.1663

■ 0.0000, 0.0000,  
0.5415

■ 0.0000, 0.0000,  
0.0000

■ 37.2859, 22.5363,  
70.7914

■ 37.2859, 22.5363,  
70.7914

■ 34.5432, 18.9308,  
70.2404

■ 40.6198, 27.2537,  
71.5266

■ 32.3360, 16.3292,  
69.8546


■ 44.5884, 33.1721,  
72.4598

■ 30.6018, 14.6064,  
69.6134


■ 49.2340, 40.3744,  
73.6051


■ 29.4137, 13.6556,  
69.4925


■ 54.5944, 48.9356,  
74.9751

 60.7044, 58.9245,  
76.5811

 67.5965, 70.4056,  
78.4339

 75.3011, 83.4391,  
80.5436

 81.6377, 93.6632,  
82.1830

 83.3374, 94.5394,  
82.2626

# Harmonies

## Analogous

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



27.8184, 22.5363, 104.4194



37.2859, 22.5363, 70.7914



42.8950, 22.5363, 33.8465

# Triad

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



37.2859, 22.5363, 70.7914



24.4623, 22.5363, 1.0418



9.1020, 22.5363, 45.3929

# Complementary

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



37.2859, 22.5363, 70.7914



34.8330, 56.1513, 17.5976

# 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.



8.6638, 22.5363, 17.1152



37.2859, 22.5363, 70.7914



16.0868, 22.5363, 1.3413

# Square

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



37.2859, 22.5363, 70.7914



34.2564, 22.5363, 2.9343



10.8469, 22.5363, 4.6998



12.2730, 22.5363, 84.0366



# Rectangle

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



37.2859, 22.5363, 70.7914



42.8719, 22.5363, 16.9298



10.8469, 22.5363, 4.6998



8.6718, 22.5363, 34.1404

# Sweetspot

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



37.2868, 22.5372, 70.7919



78.2527, 72.1389, 104.4076



23.3952, 20.3464, 71.1012



16.2392, 14.6123, 22.2145



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.



37.2868, 22.5372, 70.7919



46.7655, 24.9416, 96.9571



42.0376, 25.4578, 49.7128



13.2993, 13.1124, 16.4821



17.1915, 7.9867, 40.3739



1.1877, 0.5555, 2.6191



# Inverse Universe

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



36.2789, 23.1543, 19.3877



46.0585, 26.3327, 17.6074



32.9333, 54.9767, 26.3296



13.1810, 13.1015, 14.2142



17.7189, 9.0886, 2.8999

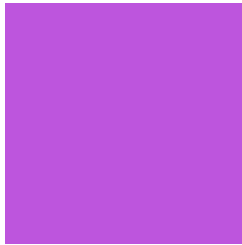


1.1815, 0.6022, 0.3645



# Previews

## White Background



This preview shows how the XYZ color 37.2859, 22.5363, 70.7914 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

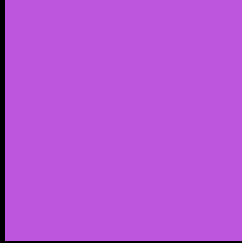
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.2859, 22.5363, 70.7914 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

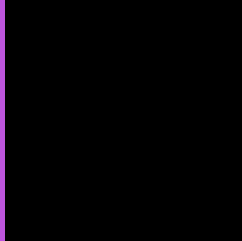
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 37.2859, 22.5363, 70.7914**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.2859, 22.5363, 70.7914.



This preview shows how white text looks on a background with the XYZ color 37.2859, 22.5363,



# 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

37.2859, 22.5363, 70.7914

### Protanopia

27.1076, 23.1556, 97.6485

### Deuteranopia

23.3933, 22.7354, 65.4428



## Tritanopia

27.0972, 22.3294, 21.2942

# Trichromacy



## Original Color

37.2859, 22.5363, 70.7914



## Protanomaly

27.4513, 20.8842, 87.3782



## Deuteranomaly

26.0288, 20.9340, 66.9588



## Tritanomaly

29.8442, 21.8724, 34.9966

# Monochromacy



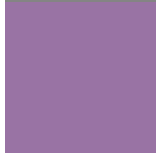
## Original Color

37.2859, 22.5363, 70.7914



## Achromatopsia

21.9318, 23.0740, 25.1276



## Achromatomaly

25.9684, 21.7141, 37.9445

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.2859, 22.5363, 70.7914 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(189, 85, 221)` looks like.

```
.text, #text, p{  
    color:rgb(189, 85, 221)  
}
```

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(189, 85, 221) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 85, 221) }
```

## Border

The CSS property to change the border of an element to XYZ 37.2859, 22.5363, 70.7914 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(189, 85, 221) }
```



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

```
.border{ border-color:rgb(189, 85, 221) }
```

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

Here you see how a box with a 4 pixel `rgb(189, 85, 221)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 85, 221); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 85, 221);  
box-shadow:4px 4px 4px 4px rgb(189, 85,  
221) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.2859, 22.5363, 70.7914 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 85, 221) }
```

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

```
.background{ background-color: rgb(189, 85,  
221) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor