

# Converting Colors

XYZ(58.7864, 33.6929, 77.6363)

Have a look what the booklet for  
XYZ(58.7864, 33.6929, 77.6363)  
contains.

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# Color

**XYZ(58.7911, 33.7335,  
77.5413)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF57E5
RGB	255, 87, 229
RGB Percent	100%, 34%, 90%
CMY	0.0000, 0.6588, 0.1020
CMYK	0.00, 0.66, 0.10, 0.00
HSL	309°, 100%, 67%
HSV	309°, 66%, 100%
XYZ	58.7911, 33.7335, 77.5413
YIQ	153.4200, 54.5460, 79.7780

# Conversions

## Conversions Part 2

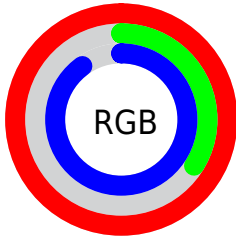
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 87, 229
Decimal	16734181
CIE Lab	64.75, 77.96, -39.38
CIE LCh	65, 87.336, 333.200
Yxy	33.7335, 0.3457, 0.1984
Android (android.graphics.Color)	4294924261 (0xFFFF57E5)
YUV	153.4200, 37.2609, 89.0857
Hunter-Lab	58.0805, 79.0428, -38.4996

# Details

The XYZ color **58.7911, 33.7335, 77.5413** is a light color, and the websafe version is hex **FF66FF**. The color can be described as light muted magenta. A complement of this color would be **42.6723, 74.7390, 27.8020**, and the grayscale version is **30.2887, 31.8660, 34.7021**.

A 20% lighter version of the original color is **69.7237, 49.3474, 100.4579**, and **30.0485, 14.6192, 40.7732** is the 20% darker color. If you saturate the color by 10%, you get **56.5340, 30.0912, 74.1013**, and if you desaturate by 10%, it is **61.7908, 38.8409, 81.2915**.

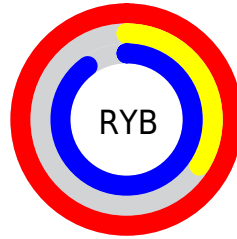
# Distribution



Red (100%)

Green (34%)

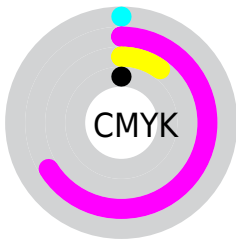
Blue (90%)



Red (100%)

Yellow (34%)

Blue (90%)

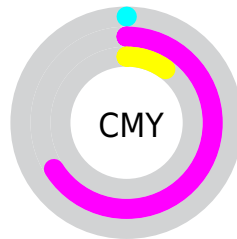


Cyan (0%)

Magenta (66%)

Yellow (10%)

Black (0%)



Cyan (0%)

Magenta (66%)


Yellow (10%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 58.7911, 33.7335, 77.5413 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 58.7911, 33.7335, 77.5413 by changing the saturation by 10% instead.





 58.7911, 33.7335,  
77.5413


 58.7911, 33.7335,  
77.5413


410.0338,  
318.9421, 506.0942

 42.6907, 22.6889,  
57.1830

 102.1904, 65.5190,  
131.6833


 29.8360, 14.3640,  
40.7419


 130.2199, 87.0288,  
166.3041

 19.8616, 8.3743,  
27.7993


 162.9566,  
112.7957, 206.5161

 12.4021, 4.3354,  
17.9367

 200.7657,  
143.2043, 252.7380

 7.0923, 1.8629,  
10.7356

244.0126,  
178.6388, 305.3882

 3.5667, 0.5259,  
5.7774

293.0627,

 1.4601, 0.0000,

219.4836, 364.8853

2.6436

348.2813,  
266.1233, 431.6478

■ 0.2984, 0.0000,  
0.9148

■ 0.0000, 0.0000,  
0.0000

■ 58.7911, 33.7335,  
77.5413

■ 58.7911, 33.7335,  
77.5413

■ 56.5340, 30.0912,  
74.1013

■ 61.7908, 38.8409,  
81.2915

■ 54.9366, 27.7484,  
70.9422

■ 65.6001, 45.5475,  
85.3733

■ 53.8994, 26.5063,  
68.0308

■ 70.2809, 53.9765,  
89.8082

■ 53.5746, 26.1938,  
66.8830

■ 75.8882, 64.2382,  
94.6150

82.4726, 76.4336,  
99.8109

90.0811, 90.6564,  
105.4119

95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

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



47.1776, 33.7335, 130.2412



58.7911, 33.7335, 77.5413



62.7021, 33.7335, 33.0047

# Triad

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



58.7911, 33.7335, 77.5413



30.7341, 33.7335, 1.9165



15.8105, 33.7335, 89.0688

# Complementary

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



58.7911, 33.7335, 77.5413



42.6723, 74.7390, 27.8020

# 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.



13.4978, 33.7335, 40.7256



58.7911, 33.7335, 77.5413



20.5794, 33.7335, 3.9388

# Square

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



58.7911, 33.7335, 77.5413



44.2223, 33.7335, 3.1304



14.9843, 33.7335, 13.5482



22.3653, 33.7335, 139.4221



# Rectangle

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



58.7911, 33.7335, 77.5413



59.7561, 33.7335, 15.6744



14.9843, 33.7335, 13.5482



14.6018, 33.7335, 71.2444

# Sweetspot

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



58.7918, 33.7349, 77.5419



79.6379, 71.1677, 97.6216



28.1673, 17.4960, 96.5002



16.6529, 14.5056, 20.5837



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.



58.7918, 33.7349, 77.5419



55.9688, 29.2288, 73.0866



49.8220, 30.1470, 30.3078



18.6647, 18.2492, 22.1176



28.0394, 13.7050, 35.1875



2.7613, 1.3469, 3.5902



# Inverse Universe

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



58.7918, 33.7349, 77.5419



55.9688, 29.2288, 73.0866



49.6781, 77.5414, 64.6943



18.6647, 18.2492, 22.1176



28.0394, 13.7050, 35.1875



2.7613, 1.3469, 3.5902



# Previews

## White Background



This preview shows how the XYZ color 58.7911, 33.7335, 77.5413 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

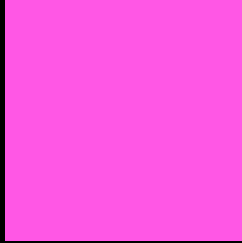
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 58.7911, 33.7335, 77.5413 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

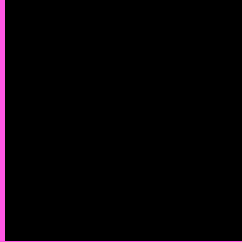
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 58.7911, 33.7335, 77.5413**

## **Background**



This preview shows how black text looks on a background with the XYZ color 58.7911, 33.7335, 77.5413.



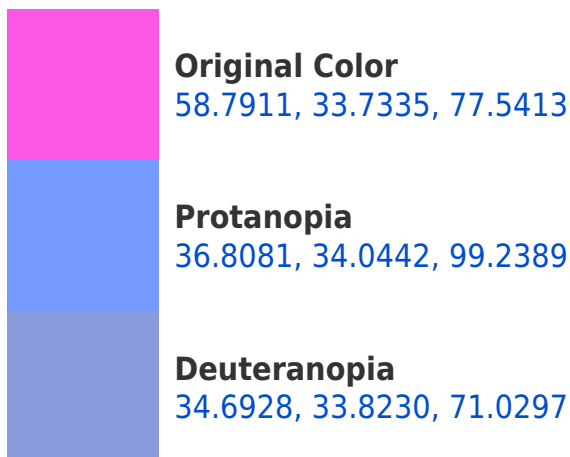
This preview shows how white text looks on a background with the XYZ color 58.7911, 33.7335,



# 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





## Tritanopia

47.3712, 33.4363, 23.3592

# Trichromacy



## Original Color

58.7911, 33.7335, 77.5413



## Protanomaly

40.5535, 30.8346, 91.0030



## Deuteranomaly

39.9898, 30.9425, 72.9720



## Tritanomaly

50.4763, 32.9089, 38.3420

# Monochromacy



## Original Color

58.7911, 33.7335, 77.5413



## Achromatopsia

30.2779, 31.8547, 34.6897



## Achromatomaly

37.4260, 29.9839, 47.5310

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 58.7911, 33.7335, 77.5413 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(255, 87, 229)` looks like.

```
.text, #text, p{  
    color:rgb(255, 87, 229)  
}
```

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(255, 87, 229) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 87, 229) }
```

## Border

The CSS property to change the border of an element to XYZ 58.7911, 33.7335, 77.5413 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(255, 87, 229) }
```



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

```
.border{ border-color:rgb(255, 87, 229) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 87, 229)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 87, 229); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 87, 229);  
box-shadow:4px 4px 4px 4px rgb(255, 87,  
229) }
```

# Background

The CSS property to change the background color of an element to XYZ 58.7911, 33.7335, 77.5413 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 87, 229) }
```

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

```
.background{ background-color: rgb(255, 87,  
229) }
```

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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