

# Converting Colors

XYZ(80.6655, 48.1004, 35.1335)

Have a look what the booklet for  
XYZ(80.6655, 48.1004, 35.1335)  
contains.

<b>XYZ(51.8400, 33.2604, 33.8246)</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(51.8400, 33.2604,  
33.8246)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF6799
RGB	255, 103, 153
RGB Percent	100%, 40%, 60%
CMY	0.0000, 0.5960, 0.4000
CMYK	0.00, 0.60, 0.40, 0.00
HSL	340°, 100%, 70%
HSV	340°, 60%, 100%
XYZ	51.8400, 33.2604, 33.8246
YIQ	154.1480, 74.5420, 47.7740

# Conversions

## Conversions Part 2

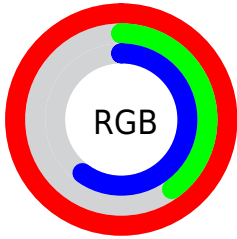
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 103, 153
Decimal	16738201
CIE <sub>Lab</sub>	64.37, 62.09, 3.12
CIE <sub>LCh</sub>	64, 62.170, 2.875
Yxy	33.2604, 0.4359, 0.2797
Android (android.graphics.Color)	4294928281 (0xFFFF6799)
YUV	154.1480, -0.5660, 88.4472
Hunter-Lab	57.6718, 59.5242, 5.5966

# Details

The XYZ color **51.8400, 33.2604, 33.8246** is a light color, and the websafe version is hex **FF6699**. A complement of this color would be **52.3749, 78.8122, 70.2146**, and the grayscale version is **30.7610, 32.3629, 35.2432**.

A 20% lighter version of the original color is **65.0733, 50.9066, 65.4277**, and **25.4744, 14.0846, 13.9463** is the 20% darker color. If you saturate the color by 10%, you get **48.3655, 28.4136, 26.1860**, and if you desaturate by 10%, it is **56.2921, 39.7380, 42.7897**.

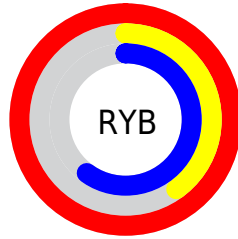
# Distribution



Red (100%)

Green (40%)

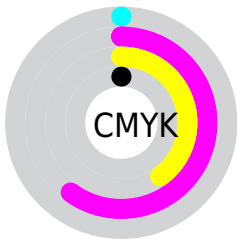
Blue (60%)



Red (100%)

Yellow (40%)

Blue (60%)

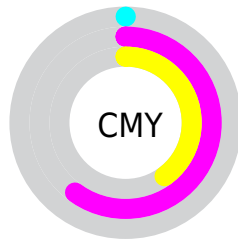


Cyan (0%)

Magenta (60%)

Yellow (40%)

Black (0%)



Cyan (0%)

Magenta (60%)


Yellow (40%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 51.8400, 33.2604, 33.8246 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 51.8400, 33.2604, 33.8246 by changing the saturation by 10% instead.





 51.8400, 33.2604,  
33.8246


 51.8400, 33.2604,  
33.8246


384.1527,  
316.8215, 334.0945

 37.1013, 22.3260,  
22.4826

 92.0709, 64.7819,  
66.7916


 25.4600, 14.0966,  
14.0102


 118.2937, 86.1377,  
89.2537

 16.5506, 8.1879,  
7.9890


 149.0754,  
111.7362, 116.2595

 10.0079, 4.2154,  
4.0002

 184.7812,  
141.9617, 148.2277

 5.4665, 1.7948,  
1.6255

225.7764,  
177.1985, 185.5768

 2.5611, 0.4839,  
0.3089

272.4266,

 0.9261, 0.0000,

217.8312, 228.7252

0.0000

325.0969,  
264.2440, 278.0916

■ 0.0000, 0.0000,  
0.0000

■ 51.8400, 33.2604,  
33.8246

■ 51.8400, 33.2604,  
33.8246

■ 48.3655, 28.4136,  
26.1860

■ 56.2921, 39.7380,  
42.7897

■ 45.7846, 25.0433,  
19.8028

■ 61.7909, 47.9716,  
53.1434

■ 44.0023, 22.9741,  
14.5981

■ 68.4020, 58.0804,  
64.9455

■ 42.8728, 21.9306,  
10.4742

■ 76.1848, 70.1714,  
78.2515

■ 42.8352, 21.8981,  
10.3305

■ 85.1942, 84.3435,  
93.1139

95.0499, 100.0000,  
108.9000

# Harmonies

## Analogous

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



49.3091, 33.2604, 63.2943



51.8400, 33.2604, 33.8246



48.1698, 33.2604, 15.6770

# Triad

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



51.8400, 33.2604, 33.8246



23.2453, 33.2604, 8.7654



24.4708, 33.2604, 99.2254

# Complementary

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



51.8400, 33.2604, 33.8246



52.3749, 78.8122, 70.2146

# 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.



19.3651, 33.2604, 69.6397



51.8400, 33.2604, 33.8246



18.7558, 33.2604, 18.2273

# Square

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



51.8400, 33.2604, 33.8246



30.7670, 33.2604, 6.0885



17.4793, 33.2604, 38.7153



32.4744, 33.2604, 109.9684



# Rectangle

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



51.8400, 33.2604, 33.8246



43.0381, 33.2604, 9.5955



17.4793, 33.2604, 38.7153



22.4131, 33.2604, 90.6390

# Sweetspot

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



51.8409, 33.2622, 33.8252



77.5463, 72.3025, 80.5299



47.8952, 29.8072, 97.8366



16.0746, 14.6569, 16.3586



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.



51.8409, 33.2622, 33.8252



47.6691, 27.4777, 24.5452



51.4523, 37.7668, 17.4122



18.2557, 18.0856, 19.9637



22.4433, 11.4666, 5.7190



2.2332, 1.1357, 0.8094



# Inverse Universe

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



51.8409, 33.2622, 33.8252



47.6691, 27.4777, 24.5452



51.8490, 66.5131, 104.7132



18.2557, 18.0856, 19.9637



22.4433, 11.4666, 5.7190

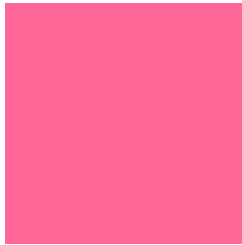


2.2332, 1.1357, 0.8094



# Previews

## White Background



This preview shows how the XYZ color 51.8400, 33.2604, 33.8246 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

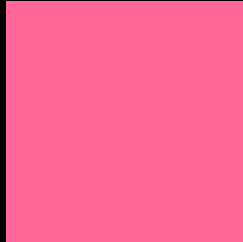
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 51.8400, 33.2604, 33.8246 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 51.8400, 33.2604, 33.8246**

## **Background**



This preview shows how black text looks on a background with the XYZ color 51.8400, 33.2604, 33.8246.



This preview shows how white text looks on a background with the XYZ color 51.8400, 33.2604,



# 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

51.8400, 33.2604, 33.8246

### Protanopia

33.1356, 33.4827, 50.0638

### Deuteranopia

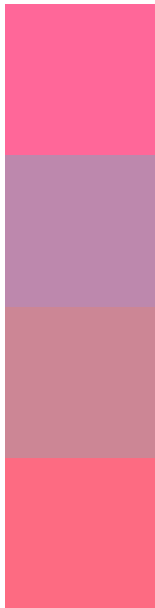
33.9341, 33.3225, 31.8375



## Tritanopia

48.9317, 33.1317, 20.6457

# Trichromacy



## Original Color

51.8400, 33.2604, 33.8246

## Protanomaly

37.3333, 31.4443, 43.6368

## Deuteranomaly

38.8518, 32.0575, 32.5738

## Tritanomaly

49.7950, 33.0097, 24.8661

# Monochromacy



## Original Color

51.8400, 33.2604, 33.8246

## Achromatopsia

30.7148, 32.3143, 35.1903

## Achromatomaly

35.9826, 30.7374, 34.6083

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 51.8400, 33.2604, 33.8246 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, 103, 153)` looks like.

```
.text, #text, p{  
    color:rgb(255, 103, 153)  
}
```

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, 103, 153) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 103, 153) }
```

## Border

The CSS property to change the border of an element to XYZ 51.8400, 33.2604, 33.8246 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, 103, 153) }
```



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

```
.border{ border-color:rgb(255, 103, 153) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 103, 153)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 103, 153); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 103, 153);  
box-shadow:4px 4px 4px 4px rgb(255, 103,  
153) }
```

# Background

The CSS property to change the background color of an element to XYZ 51.8400, 33.2604, 33.8246 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 103, 153) }
```

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

```
.background{ background-color: rgb(255,  
103, 153) }
```

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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