

# Converting Colors

XYZ(66.8476, 72.3394, 33.3613)

Have a look what the booklet for  
XYZ(66.8476, 72.3394, 33.3613)  
contains.

<b>XYZ(66.8476, 72.3394, 33.3613)</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(66.8476, 72.3394,  
33.3613)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F2DD87
RGB	242, 221, 135
RGB Percent	95%, 87%, 53%
CMY	0.0510, 0.1333, 0.4706
CMYK	0.00, 0.09, 0.44, 0.05
HSL	48°, 80%, 74%
HSV	48°, 44%, 95%
XYZ	66.8476, 72.3394, 33.3613
YIQ	217.4750, 40.1220, -22.2940

# Conversions

## Conversions Part 2

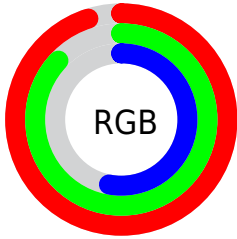
Format	Color
R <sub>YB</sub>	161, 242, 135
Decimal	15916423
CIE <sub>Lab</sub>	88.13, -4.19, 44.71
CIE <sub>LCh</sub>	88, 44.902, 95.358
Yxy	72.3394, 0.3874, 0.4192
Android (android.graphics.Color)	4294106503 (0xFFFF2DD87)
YUV	217.4750, -40.6602, 21.5084
Hunter-Lab	85.0526, -8.5488, 36.2807

# Details

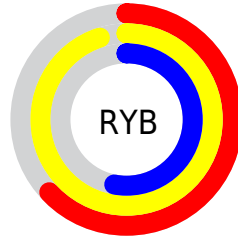
The XYZ color **66.8476, 72.3394, 33.3613** is a light color, and the websafe version is hex **CCCC66**. A complement of this color would be **37.9069, 35.3376, 88.8273**, and the grayscale version is **66.5322, 69.9971, 76.2268**.

A 20% lighter version of the original color is **86.1853, 96.4541, 62.2192**, and **34.9647, 38.0873, 13.6924** is the 20% darker color. If you saturate the color by 10%, you get **64.0983, 69.2646, 24.9730**, and if you desaturate by 10%, it is **70.0232, 75.6467, 43.8037**.

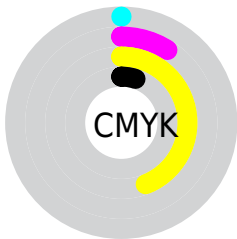
# Distribution



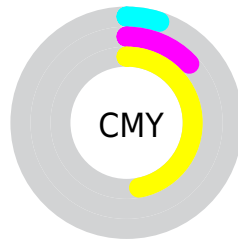
- Red (95%)
- Green (87%)
- Blue (53%)



- Red (63%)
- Yellow (95%)
- Blue (53%)



- Cyan (0%)
- Magenta (9%)
- Yellow (44%)
- Black (5%)




- Cyan (5%)
- Magenta (13%)
- Yellow (47%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 66.8476, 72.3394, 33.3613 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 66.8476, 72.3394, 33.3613 by changing the saturation by 10% instead.





 66.8476, 72.3394,  
33.3613

 66.8476, 72.3394,  
33.3613


438.8431,  
468.7221, 331.9564


 49.2310, 53.4360,  
22.1300


 113.7530,  
122.5389, 66.0617

 35.0181, 38.1509,  
13.7532


 143.7726,  
154.6039, 88.3679

 23.8434, 26.0998,  
7.8124


 178.6572,  
191.8247, 115.2027

 15.3416, 16.8983,  
3.8891

218.7721,  
234.5859, 146.9848

 9.1473, 10.1620,  
1.5647

264.4829,  
283.2719, 184.1327

 4.8953, 5.5065,  
0.2655

316.1547,

 2.2201, 2.5474,

338.2669, 227.0649

0.0000

374.1530,  
399.9555, 276.2000

■ 0.7533, 0.9003,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 66.8476, 72.3394,  
33.3613

■ 66.8476, 72.3394,  
33.3613

■ 64.0983, 69.2646,  
24.9730

■ 70.0232, 75.6467,  
43.8037

■ 61.7431, 66.4011,  
18.4944


■ 73.6440, 79.1867,  
56.4228


■ 59.7536, 63.7397,  
13.7692


■ 77.7344, 82.9722,  
71.3366


■ 58.0947, 61.2658,  
10.6145


■ 82.3152, 87.0119,  
88.6534


 56.7237, 58.9620,  
8.8067

 87.2439, 91.2493,  
107.6224

 56.0251, 57.6917,  
8.1828

 88.6970, 94.1554,  
108.1067

 90.1872, 97.1357,  
108.6034

 90.4279, 97.6172,  
108.6837

# Harmonies

## Analogous

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



77.7242, 72.3394, 36.3354



66.8476, 72.3394, 33.3613



57.4932, 72.3394, 39.7304

# Triad

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



66.8476, 72.3394, 33.3613



53.2630, 72.3394, 118.1520



89.2694, 72.3394, 106.0650

# Complementary

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



66.8476, 72.3394, 33.3613



37.9069, 35.3376, 88.8273

# Split Complementary

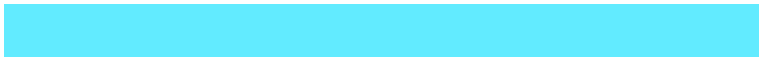
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



81.4022, 72.3394, 137.4618



66.8476, 72.3394, 33.3613



60.5065, 72.3394, 145.6167

# Square

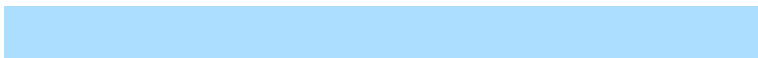
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



66.8476, 72.3394, 33.3613



50.1898, 72.3394, 84.4133



70.7013, 72.3394, 153.4721



91.4157, 72.3394, 73.3750

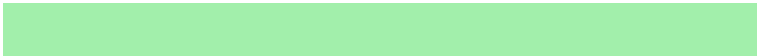


# Rectangle

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



66.8476, 72.3394, 33.3613



53.1385, 72.3394, 49.7210



70.7013, 72.3394, 153.4721



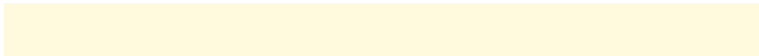
87.1689, 72.3394, 117.3617

# Sweetspot

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



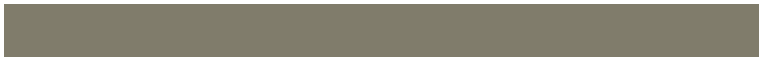
66.8494, 72.3428, 33.3628



88.1247, 93.9659, 82.4944



51.3171, 38.6198, 36.3809



18.6310, 19.9038, 16.7974



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.



66.8494, 72.3428, 33.3628



72.4974, 78.3651, 29.0266



62.6755, 78.9406, 34.8563



16.8441, 17.9012, 16.7172



30.1950, 31.1881, 4.4285



2.5784, 2.7275, 0.3906



# Inverse Universe

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



37.9069, 35.3376, 88.8273



36.1106, 31.8736, 98.8567



40.6492, 31.9660, 88.0320



15.1483, 15.7308, 19.9595



9.2414, 4.7071, 45.5494



0.8360, 0.5260, 3.8117



# Previews

## White Background



This preview shows how the XYZ color 66.8476, 72.3394, 33.3613 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 66.8476, 72.3394, 33.3613 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 66.8476, 72.3394, 33.3613**

## **Background**



This preview shows how black text looks on a background with the XYZ color 66.8476, 72.3394, 33.3613.



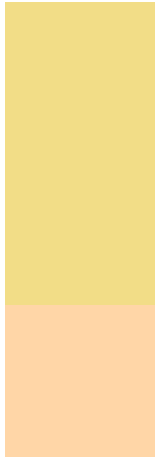
This preview shows how white text looks on a background with the XYZ color 66.8476, 72.3394,



# 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

66.8476, 72.3394, 33.3613

### Protanopia

66.8476, 72.3394, 33.3613

### Deuteranopia

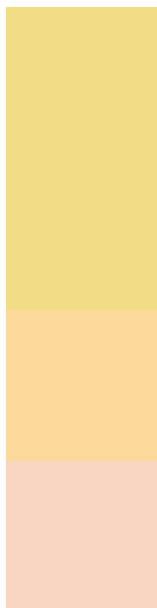
72.2616, 72.1432, 46.6756



## Tritanopia

76.5577, 72.0934, 81.8319

# Trichromacy



## Original Color

66.8476, 72.3394, 33.3613

## Protanomaly

66.8476, 72.3394, 33.3613

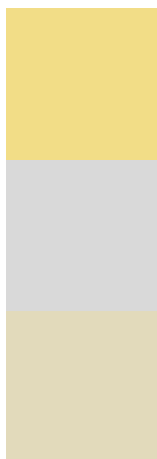
## Deuteranomaly

70.1536, 72.3163, 41.2713

## Tritanomaly

72.3836, 71.8998, 60.5151

# Monochromacy



## Original Color

66.8476, 72.3394, 33.3613

## Achromatopsia

65.9525, 69.3872, 75.5626

## Achromatomaly

65.4051, 69.8994, 57.0584

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 66.8476, 72.3394, 33.3613 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(242, 221, 135)` looks like.

```
.text, #text, p{  
    color:rgb(242, 221, 135)  
}
```

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(242, 221, 135) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(242, 221, 135) }
```

## Border

The CSS property to change the border of an element to XYZ 66.8476, 72.3394, 33.3613 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(242, 221, 135) }
```



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

```
.border{ border-color:rgb(242, 221, 135) }
```

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

Here you see how a box with a 4 pixel rgb(242, 221, 135) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(242, 221, 135); -webkit-box-  
shadow:4px 4px 4px 4px rgb(242, 221, 135);  
box-shadow:4px 4px 4px 4px rgb(242, 221,  
135) }
```

# Background

The CSS property to change the background color of an element to XYZ 66.8476, 72.3394, 33.3613 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(242, 221, 135) }
```

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

```
.background{ background-color: rgb(242,  
221, 135) }
```

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