

# Converting Colors

XYZ(66.2357, 83.6199, 16.9845)

Have a look what the booklet for  
XYZ(66.2357, 83.6199, 16.9845)  
contains.

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# Color

**XYZ(66.0713, 83.3418,  
16.8792)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E4F73C
RGB	228, 247, 60
RGB Percent	89%, 97%, 24%
CMY	0.1059, 0.0313, 0.7647
CMYK	0.08, 0.00, 0.76, 0.03
HSL	66°, 92%, 60%
HSV	66°, 76%, 97%
XYZ	66.0713, 83.3418, 16.8792
YIQ	220.0010, 48.7030, -62.1850

# Conversions

## Conversions Part 2

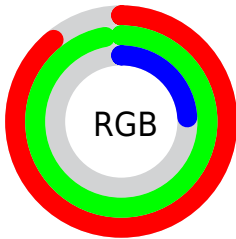
Format	Color
<a href="#">RYB</a>	<a href="#">60, 247, 79</a>
Decimal	<a href="#">15005500</a>
CIELab	<a href="#">93.16, -27.61, 80.77</a>
CIELCh	<a href="#">93, 85.364, 108.872</a>
Yxy	<a href="#">83.3418, 0.3973, 0.5012</a>
Android (android.graphics.Color)	<a href="#">4293195580 (0xFFE4F73C)</a>
YUV	<a href="#">220.0010, -78.8805, 7.0151</a>
Hunter-Lab	<a href="#">91.2917, -30.5733, 52.9419</a>

# Details

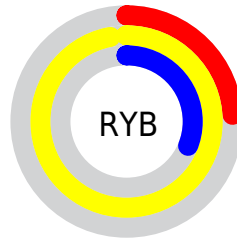
The XYZ color **66.0713, 83.3418, 16.8792** is a light color, and the websafe version is hex **FFFF33**. The color can be described as light washed yellow. A complement of this color would be **21.6314, 11.6112, 89.1019**, and the grayscale version is **68.5401, 72.1096, 78.5273**.

A 20% lighter version of the original color is **80.4512, 94.1605, 32.0237**, and **34.7793, 45.5864, 6.9660** is the 20% darker color. If you saturate the color by 10%, you get **64.7746, 82.7348, 14.1696**, and if you desaturate by 10%, it is **67.6879, 84.0842, 21.1961**.

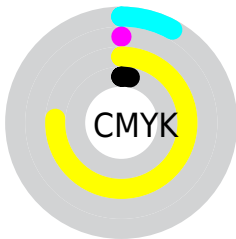
# Distribution



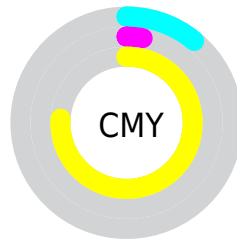
- Red (89%)
- Green (97%)
- Blue (24%)



- Red (24%)
- Yellow (97%)
- Blue (31%)



- Cyan (8%)
- Magenta (0%)
- Yellow (76%)
- Black (3%)




- Cyan (11%)
- Magenta (3%)
- Yellow (76%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 66.0713, 83.3418, 16.8792 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 66.0713, 83.3418, 16.8792 by changing the saturation by 10% instead.





 66.0713, 83.3418,  
16.8792


 66.0713, 83.3418,  
16.8792


436.1164,  
506.1249, 246.4956


 48.5982, 62.4722,  
9.9874


 112.6458,  
138.0541, 38.9058

 34.5141, 45.4143,  
5.2851


 142.4780,  
172.6655, 54.8776


 23.4536, 31.7839,  
2.3538


 177.1605,  
212.6263, 74.7131

 15.0513, 21.1965,  
0.7611

 217.0588,  
258.3209, 98.8309

 8.9420, 13.2677,  
0.0000

 262.5381,  
310.1337, 127.6495

 4.7601, 7.6131,  
0.0000

313.9640,

 2.1405, 3.8484,

368.4490, 161.5875

0.0000

371.7016,  
433.6513, 201.0633

■ 0.7111, 1.5891,  
0.0000

■ 0.0000, 0.3503,  
0.0000

■ 66.0713, 83.3418,  
16.8792

■ 66.0713, 83.3418,  
16.8792

■ 64.7746, 82.7348,  
14.1696

■ 67.6879, 84.0842,  
21.1961


■ 63.7455, 82.2332,  
12.8176


■ 69.6561, 84.9655,  
27.3124


■ 63.3563, 82.0392,  
12.4959


■ 72.0101, 86.0025,  
35.3992

■ 74.7782, 87.2065,  
45.6060

 77.9863, 88.5878,  
58.0679

 81.6579, 90.1559,  
72.9091

 85.8149, 91.9195,  
90.2444

 90.0541, 93.7173,  
107.9506

 90.9507, 94.1796,  
107.9926

# Harmonies

## Analogous

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



87.8296, 83.3418, 15.5116



66.0713, 83.3418, 16.8792



50.9752, 83.3418, 31.3504

# Triad

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



66.0713, 83.3418, 16.8792



54.1059, 83.3418, 219.1396



129.4928, 83.3418, 116.7226

# Complementary

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



66.0713, 83.3418, 16.8792



21.6314, 11.6112, 89.1019

# 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.



116.3278, 83.3418, 198.5943



66.0713, 83.3418, 16.8792



71.1809, 83.3418, 273.8065

# Square

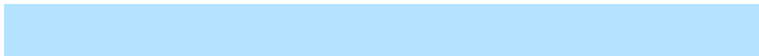
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



66.0713, 83.3418, 16.8792



45.0212, 83.3418, 136.8274



93.9930, 83.3418, 264.8934



127.4129, 83.3418, 56.3803



# Rectangle

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



66.0713, 83.3418, 16.8792



45.4208, 83.3418, 53.1186



93.9930, 83.3418, 264.8934



126.6174, 83.3418, 142.9235

# Sweetspot

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



66.0732, 83.3456, 16.8809



84.8444, 95.6683, 66.4277



41.9508, 25.6515, 7.0162



17.8707, 20.3529, 13.0661



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.



66.0732, 83.3456, 16.8809



69.0029, 88.6395, 14.2803



44.0392, 71.9867, 15.8498



17.7390, 19.2230, 17.5730



33.5753, 43.4215, 6.6116



2.9979, 3.8405, 0.5833



# Inverse Universe

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



21.6314, 11.6112, 89.1019



19.5064, 8.4242, 95.2057



35.4645, 18.7424, 89.7493



15.7374, 16.0073, 20.8028



9.1459, 3.6892, 46.7681

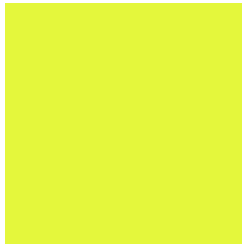


0.8550, 0.3506, 4.1128



# Previews

## White Background



This preview shows how the XYZ color 66.0713, 83.3418, 16.8792 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

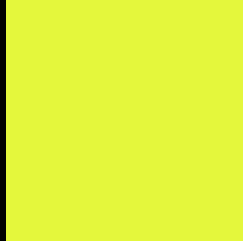
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 66.0713, 83.3418, 16.8792 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 66.0713, 83.3418, 16.8792**

## **Background**



This preview shows how black text looks on a background with the XYZ color 66.0713, 83.3418, 16.8792.



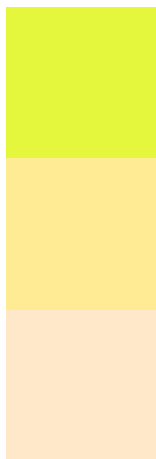
This preview shows how white text looks on a background with the XYZ color 66.0713, 83.3418,



# 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

66.0713, 83.3418, 16.8792

### Protanopia

76.2148, 82.7832, 39.5656

### Deuteranopia

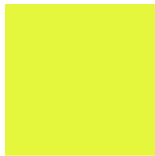
80.4766, 82.6761, 67.5936



## Tritanopia

82.8963, 82.7834, 100.4166

# Trichromacy



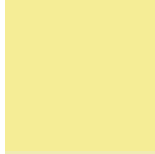
## Original Color

66.0713, 83.3418, 16.8792



## Protanomaly

71.6172, 82.3833, 28.3466



## Deuteranomaly

73.4454, 82.1829, 40.8461



## Tritanomaly

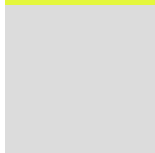
73.8303, 81.6369, 55.0462

# Monochromacy



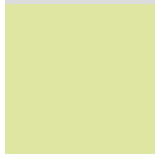
## Original Color

66.0713, 83.3418, 16.8792



## Achromatopsia

68.0267, 71.5694, 77.9390



## Achromatomaly

65.2498, 74.8902, 45.1986

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 66.0713, 83.3418, 16.8792 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(228, 247, 60)` looks like.

```
.text, #text, p{  
    color:rgb(228, 247, 60)  
}
```

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(228, 247, 60) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(228, 247, 60) }
```

## Border

The CSS property to change the border of an element to XYZ 66.0713, 83.3418, 16.8792 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(228, 247, 60) }
```



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

```
.border{ border-color:rgb(228, 247, 60) }
```

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

Here you see how a box with a 4 pixel rgb(228, 247, 60) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(228, 247, 60); -webkit-box-  
shadow:4px 4px 4px 4px rgb(228, 247, 60);  
box-shadow:4px 4px 4px 4px rgb(228, 247,  
60) }
```

# Background

The CSS property to change the background color of an element to XYZ 66.0713, 83.3418, 16.8792 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(228, 247, 60) }
```

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

```
.background{ background-color: rgb(228,  
247, 60) }
```

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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