

# Converting Colors

XYZ(68.6163, 83.2813, 18.0210)

Have a look what the booklet for  
XYZ(68.6163, 83.2813, 18.0210)  
contains.

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# Color

**XYZ(68.6848, 83.3082,  
18.0902)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EEF445
RGB	238, 244, 69
RGB Percent	93%, 96%, 27%
CMY	0.0667, 0.0431, 0.7294
CMYK	0.02, 0.00, 0.72, 0.04
HSL	62°, 89%, 61%
HSV	62°, 72%, 96%
XYZ	68.6848, 83.3082, 18.0902
YIQ	222.2560, 52.5990, -55.6970

# Conversions

## Conversions Part 2

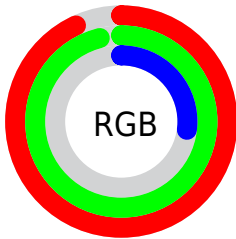
Format	Color
<a href="#">RYB</a>	<a href="#">69, 244, 75</a>
Decimal	<a href="#">15660101</a>
CIELab	<a href="#">93.15, -21.78, 78.24</a>
CIELCh	<a href="#">93, 81.215, 105.558</a>
Yxy	<a href="#">83.3082, 0.4038, 0.4898</a>
Android (android.graphics.Color)	<a href="#">4293850181 (0xFFEEF445)</a>
YUV	<a href="#">222.2560, -75.5552, 13.8075</a>
Hunter-Lab	<a href="#">91.2733, -25.4039, 52.1402</a>

# Details

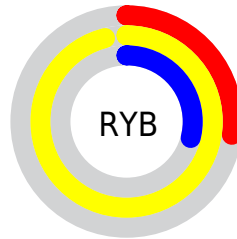
The XYZ color **68.6848, 83.3082, 18.0902** is a light color, and the websafe version is hex **FFFF66**. The color can be described as light washed yellow. A complement of this color would be **21.3613, 12.2855, 86.8386**, and the grayscale version is **70.1060, 73.7569, 80.3213**.

A 20% lighter version of the original color is **80.8963, 94.3385, 34.3675**, and **36.3433, 45.4314, 6.8536** is the 20% darker color. If you saturate the color by 10%, you get **67.7979, 82.9241, 14.8756**, and if you desaturate by 10%, it is **69.8881, 83.8252, 22.9471**.

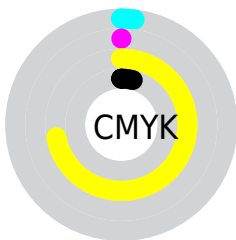
# Distribution



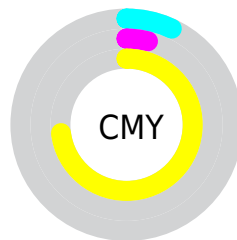
- Red (93%)
- Green (96%)
- Blue (27%)



- Red (27%)
- Yellow (96%)
- Blue (29%)



- Cyan (2%)
- Magenta (0%)
- Yellow (72%)
- Black (4%)




- Cyan (7%)
- Magenta (4%)
- Yellow (73%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 68.6848, 83.3082, 18.0902 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 68.6848, 83.3082, 18.0902 by changing the saturation by 10% instead.





 68.6848, 83.3082,  
18.0902

 68.6848, 83.3082,  
18.0902


445.2573,  
506.0131, 253.6321


 50.7308, 62.4444,  
10.8447


 116.3678,  
138.0070, 41.0070


 36.2146, 45.3919,  
5.8496


 146.8275,  
172.6109, 57.5153


 24.7708, 31.7662,  
2.6865


 182.1864,  
212.5636, 77.9483

 16.0342, 21.1830,  
0.9366

 222.8099,  
258.2495, 102.7245

 9.6394, 13.2578,  
0.0000

 269.0634,  
310.0530, 132.2624

 5.2209, 7.6063,  
0.0000

321.3122,

 2.4136, 3.8441,

368.3585, 166.9806

0.0000

379.9217,  
433.5504, 207.2977

■ 0.8519, 1.5867,  
0.0000

■ 0.0000, 0.3486,  
0.0000

■ 68.6848, 83.3082,  
18.0902

■ 68.6848, 83.3082,  
18.0902

■ 67.7979, 82.9241,  
14.8756

■ 69.8881, 83.8252,  
22.9471


■ 67.1806, 82.6449,  
13.0827


■ 71.4360, 84.4771,  
29.6203


■ 66.8222, 82.4750,  
12.3974


■ 73.3601, 85.2796,  
38.2674


■ 75.6867, 86.2432,  
49.0274

 78.4399, 87.3777,  
62.0271

 81.6419, 88.6918,  
77.3829

 85.3132, 90.1938,  
95.2035

 87.9542, 91.2838,  
107.5916

 88.2467, 91.4346,  
107.6053

# Harmonies

## Analogous

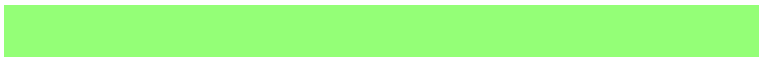
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



89.8555, 83.3082, 17.8888



68.6848, 83.3082, 18.0902



53.3651, 83.3082, 30.8240

# Triad

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



68.6848, 83.3082, 18.0902



53.8004, 83.3082, 203.0437



125.9009, 83.3082, 123.2632

# Complementary

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



68.6848, 83.3082, 18.0902



21.3613, 12.2855, 86.8386

# 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.



112.2154, 83.3082, 200.2882



68.6848, 83.3082, 18.0902



69.3890, 83.3082, 258.5882

# Square

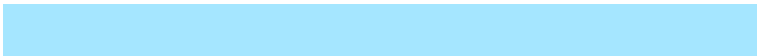
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



68.6848, 83.3082, 18.0902



45.8834, 83.3082, 125.9942



90.6976, 83.3082, 257.3996



125.6195, 83.3082, 62.7149



# Rectangle

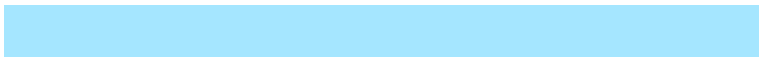
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



68.6848, 83.3082, 18.0902



47.4100, 83.3082, 50.2762



90.6976, 83.3082, 257.3996



122.6876, 83.3082, 148.4951

# Sweetspot

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



68.6867, 83.3121, 18.0919



86.5923, 96.5355, 68.0413



40.8901, 24.6744, 8.2388



18.3479, 20.5859, 13.6786



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.



68.6867, 83.3121, 18.0919



74.5985, 91.5057, 15.3758



46.1289, 71.6831, 17.0362



17.8551, 19.2829, 17.5785



36.3571, 44.8556, 6.7418



3.2127, 3.9513, 0.5933



# Inverse Universe

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



21.3613, 12.2855, 86.8386



19.6777, 8.9822, 95.3044



33.4280, 18.5061, 87.4033



15.6337, 15.9538, 20.7980



8.9589, 3.5928, 46.7593

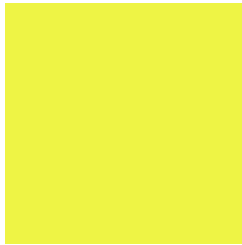


0.8056, 0.3251, 4.1105



# Previews

## White Background



This preview shows how the XYZ color 68.6848, 83.3082, 18.0902 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

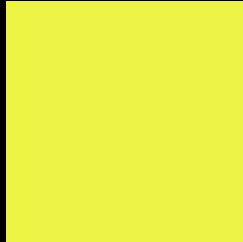
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 68.6848, 83.3082, 18.0902 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 68.6848, 83.3082, 18.0902**

## **Background**



This preview shows how black text looks on a background with the XYZ color 68.6848, 83.3082, 18.0902.



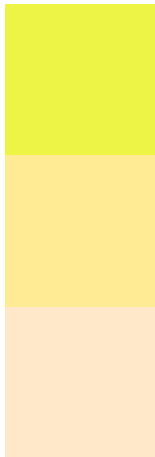
This preview shows how white text looks on a background with the XYZ color 68.6848, 83.3082,



# 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

68.6848, 83.3082, 18.0902

### Protanopia

76.2936, 82.8148, 39.9807

### Deuteranopia

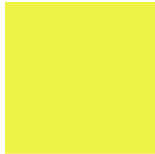
80.4766, 82.6761, 67.5936



## Tritanopia

85.2510, 83.2115, 98.7570

# Trichromacy



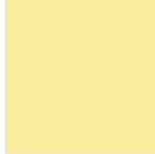
## Original Color

68.6848, 83.3082, 18.0902



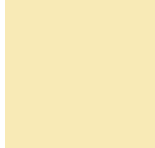
## Protanomaly

72.9712, 82.6207, 29.5542



## Deuteranomaly

74.8951, 82.4637, 42.5415



## Tritanomaly

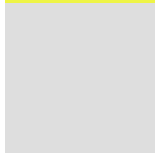
76.5777, 82.1795, 56.0821

# Monochromacy



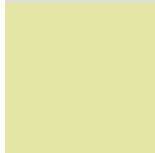
## Original Color

68.6848, 83.3082, 18.0902



## Achromatopsia

69.4303, 73.0461, 79.5472



## Achromatomaly

67.1747, 75.8408, 47.1746

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 68.6848, 83.3082, 18.0902 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(238, 244, 69)` looks like.

```
.text, #text, p{  
    color:rgb(238, 244, 69)  
}
```

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(238, 244, 69) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(238, 244, 69) }
```

## Border

The CSS property to change the border of an element to XYZ 68.6848, 83.3082, 18.0902 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(238, 244, 69) }
```



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

```
.border{ border-color:rgb(238, 244, 69) }
```

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

Here you see how a box with a 4 pixel `rgb(238, 244, 69)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(238, 244, 69); -webkit-box-  
shadow:4px 4px 4px 4px rgb(238, 244, 69);  
box-shadow:4px 4px 4px 4px rgb(238, 244,  
69) }
```

# Background

The CSS property to change the background color of an element to XYZ 68.6848, 83.3082, 18.0902 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(238, 244, 69) }
```

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

```
.background{ background-color: rgb(238,  
244, 69) }
```

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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