

# Converting Colors

XYZ(76.8013, 92.1021, 16.6795)

Have a look what the booklet for  
XYZ(76.8013, 92.1021, 16.6795)  
contains.

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# **Color**

**XYZ(76.8692, 92.1762,  
16.6461)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FEFE31
RGB	254, 254, 49
RGB Percent	100%, 100%, 19%
CMY	0.0039, 0.0039, 0.8078
CMYK	0.00, 0.00, 0.81, 0.00
HSL	60°, 99%, 59%
HSV	60°, 81%, 100%
XYZ	76.8692, 92.1762, 16.6461
YIQ	230.6300, 65.8050, -63.7550

# Conversions

## Conversions Part 2

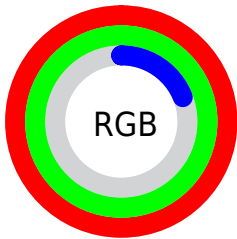
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	49, 254, 49
Decimal	16711217
CIE <sub>Lab</sub>	96.89, -20.76, 87.70
CIE <sub>LCh</sub>	97, 90.124, 103.318
Yxy	92.1762, 0.4140, 0.4964
Android (android.graphics.Color)	4294901297 (0xFFFEFE31)
YUV	230.6300, -89.5436, 20.4955
Hunter-Lab	96.0084, -25.0987, 56.9261

# Details

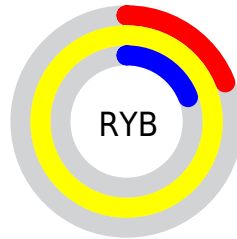
The XYZ color **76.8692, 92.1762, 16.6461** is a light color, and the websafe version is hex **FFFF33**. The color can be described as light washed yellow. A complement of this color would be **20.2568, 10.0072, 94.6357**, and the grayscale version is **76.2936, 80.2668, 87.4106**.

A 20% lighter version of the original color is **80.0945, 94.0178, 30.1455**, and **42.1864, 51.7256, 7.7606** is the 20% darker color. If you saturate the color by 10%, you get **76.4772, 92.0228, 14.5744**, and if you desaturate by 10%, it is **77.5670, 92.4588, 20.3096**.

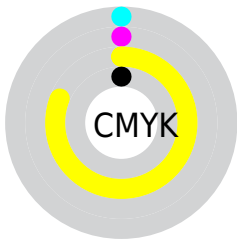
# Distribution



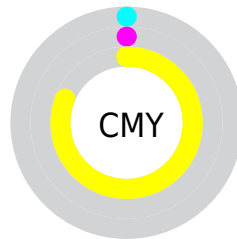
- Red (100%)
- Green (100%)
- Blue (19%)



- Red (19%)
- Yellow (100%)
- Blue (19%)



- Cyan (0%)
- Magenta (0%)
- Yellow (81%)
- Black (0%)




- Cyan (0%)
- Magenta (0%)
- Yellow (81%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 76.8692, 92.1762, 16.6461 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 76.8692, 92.1762, 16.6461 by changing the saturation by 10% instead.




 76.8692, 92.1762,  
16.6461

 76.8692, 92.1762,  
16.6461


473.2167,  
535.0848, 245.0991

 57.4451, 69.7870,  
9.8232


 127.9287,  
150.3576, 38.4986

 41.6042, 51.3529,  
5.1778


 160.2947,  
186.9185, 54.3652


 28.9813, 36.4895,  
2.2914


 197.7054,  
228.9722, 74.0835

 19.2109, 24.8125,  
0.7264

 240.5262,  
276.9029, 98.0721

 11.9276, 15.9374,  
0.0000

 289.1223,  
331.0952, 126.7494

 6.7663, 9.4799,  
0.0000

343.8592,

 3.3614, 5.0555,

391.9333, 160.5339

0.0000

405.1023,  
459.8017, 199.8444

■ 1.3476, 2.2799,  
0.0000

■ 0.2184, 0.7630,  
0.0000

■ 76.8692, 92.1762,  
16.6461

■ 76.8692, 92.1762,  
16.6461

■ 76.4772, 92.0228,  
14.5744

■ 77.5670, 92.4588,  
20.3096

■ 76.3160, 91.9583,  
13.7274

■ 78.6086, 92.8755,  
25.7926

■ 80.0331, 93.4453,  
33.2919

■ 81.8727, 94.1812,  
42.9775

■ 84.1564, 95.0947,  
55.0013

■ 86.9104, 96.1964,  
69.5017

■ 90.1589, 97.4958,  
86.6063

■ 93.9246, 99.0021,  
106.4342

■ 94.3699, 99.1803,  
108.7776

# Harmonies

## Analogous

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



102.3410, 92.1762, 17.2939



76.8692, 92.1762, 16.6461



58.2785, 92.1762, 29.2657

# Triad

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



76.8692, 92.1762, 16.6461



56.7519, 92.1762, 229.6053



143.0028, 92.1762, 145.9402

# Complementary

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



76.8692, 92.1762, 16.6461



20.2568, 10.0072, 94.6357

# 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.



125.4295, 92.1762, 239.8029



76.8692, 92.1762, 16.6461



74.3664, 92.1762, 301.8981

# Square

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



76.8692, 92.1762, 16.6461



48.2654, 92.1762, 136.0245



99.3090, 92.1762, 306.3348



144.0309, 92.1762, 71.5541



# Rectangle

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



76.8692, 92.1762, 16.6461



50.9164, 92.1762, 49.8757



99.3090, 92.1762, 306.3348



138.7006, 92.1762, 176.8852

# Sweetspot

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



76.8713, 92.1805, 16.6480



86.7143, 96.6656, 65.0092



42.5290, 23.4915, 5.1997



18.3488, 20.6058, 12.8007



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.



76.8713, 92.1805, 16.6480



77.0384, 92.7950, 14.0705



48.8558, 77.7380, 15.3369



19.5612, 21.0908, 19.1843



40.2323, 48.4786, 7.2368



3.9173, 4.7202, 0.7046



# Inverse Universe

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



20.2568, 10.0072, 94.6357



18.2289, 7.4355, 95.0822



31.8464, 15.9818, 95.1781



17.0032, 17.3778, 22.7080



9.4316, 3.7727, 49.6657

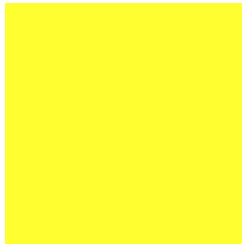


0.9183, 0.3673, 4.8358



# Previews

## White Background



This preview shows how the XYZ color 76.8692, 92.1762, 16.6461 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

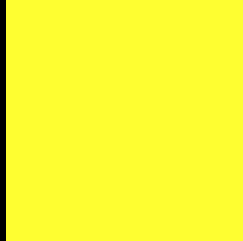
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 76.8692, 92.1762, 16.6461 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 76.8692, 92.1762, 16.6461**

## **Background**



This preview shows how black text looks on a background with the XYZ color 76.8692, 92.1762, 16.6461.



This preview shows how white text looks on a background with the XYZ color 76.8692, 92.1762,



# Color Blindness Simulation

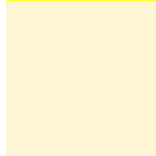
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



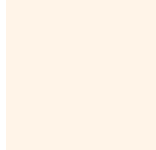
### Original Color

76.8692, 92.1762, 16.6461



### Protanopia

86.0794, 91.9250, 75.4938



### Deuteranopia

88.1562, 91.7876, 89.4144



## Tritanopia

90.3895, 92.2007, 102.6550

# Trichromacy



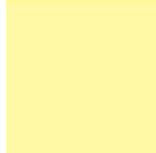
## Original Color

76.8692, 92.1762, 16.6461



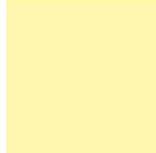
## Protanomaly

80.8655, 91.3113, 43.4998



## Deuteranomaly

81.5989, 91.1114, 48.8828



## Tritanomaly

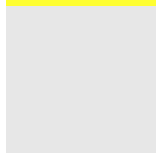
82.3372, 90.9161, 54.2832

# Monochromacy



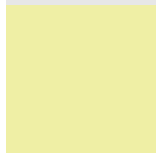
## Original Color

76.8692, 92.1762, 16.6461



## Achromatopsia

75.9547, 79.9103, 87.0223



## Achromatomaly

73.2546, 82.8003, 47.7184

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 76.8692, 92.1762, 16.6461 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(254, 254, 49)` looks like.

```
.text, #text, p{  
    color:rgb(254, 254, 49)  
}
```

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(254, 254, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(254, 254, 49) }
```

## Border

The CSS property to change the border of an element to XYZ 76.8692, 92.1762, 16.6461 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(254, 254, 49) }
```



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

```
.border{ border-color:rgb(254, 254, 49) }
```

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

Here you see how a box with a 4 pixel rgb(254, 254, 49) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(254, 254, 49); -webkit-box-  
shadow:4px 4px 4px 4px rgb(254, 254, 49);  
box-shadow:4px 4px 4px 4px rgb(254, 254,  
49) }
```

# Background

The CSS property to change the background color of an element to XYZ 76.8692, 92.1762, 16.6461 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(254, 254, 49) }
```

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

```
.background{ background-color: rgb(254,  
254, 49) }
```

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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