

# Converting Colors

XYZ(66.4980, 73.3324, 16.1186)

Have a look what the booklet for  
XYZ(66.4980, 73.3324, 16.1186)  
contains.

<b>XYZ(66.4980, 73.3324, 16.1186)</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(66.4980, 73.3324,  
16.1186)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F9DF44
RGB	249, 223, 68
RGB Percent	98%, 87%, 27%
CMY	0.0235, 0.1255, 0.7333
CMYK	0.00, 0.10, 0.73, 0.02
HSL	51°, 94%, 62%
HSV	51°, 73%, 98%
XYZ	66.4980, 73.3324, 16.1186
YIQ	213.1040, 65.2510, -42.6930

# Conversions

## Conversions Part 2

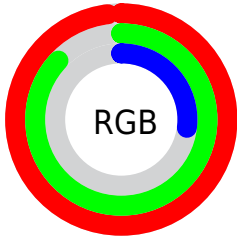
Format	Color
R <sub>Y</sub> B	98, 249, 68
Decimal	16375620
CIE Lab	88.61, -7.01, 74.56
CIE LCh	89, 74.884, 95.374
Yxy	73.3324, 0.4264, 0.4702
Android (android.graphics.Color)	4294565700 (0xFFFF9DF44)
YUV	213.1040, -71.5363, 31.4808
Hunter-Lab	85.6343, -11.2487, 48.7841

# Details

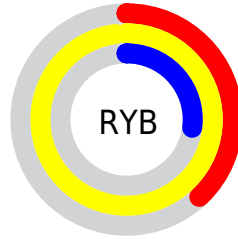
The XYZ color **66.4980, 73.3324, 16.1186** is a light color, and the websafe version is hex **FFCC33**. The color can be described as light washed yellow. A complement of this color would be **23.4856, 16.0738, 91.4867**, and the grayscale version is **63.7505, 67.0705, 73.0398**.

A 20% lighter version of the original color is **80.7659, 94.2864, 33.6809**, and **34.9889, 38.8241, 5.6497** is the 20% darker color. If you saturate the color by 10%, you get **64.9487, 71.2028, 12.6160**, and if you desaturate by 10%, it is **68.3933, 75.6383, 21.3289**.

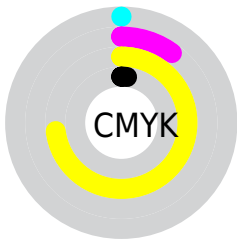
# Distribution



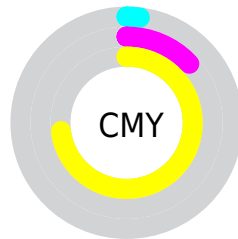
- Red (98%)
- Green (87%)
- Blue (27%)



- Red (38%)
- Yellow (98%)
- Blue (27%)



- Cyan (0%)
- Magenta (10%)
- Yellow (73%)
- Black (2%)



- Cyan (2%)
- Magenta (13%)
- Yellow (73%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 66.4980, 73.3324, 16.1186 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 66.4980, 73.3324, 16.1186 by changing the saturation by 10% instead.



66.4980, 73.3324,  
16.1186

66.4980, 73.3324,  
16.1186

437.6164,  
472.1660, 241.9101

48.9460, 54.2478,  
9.4529

113.2546,  
123.9490, 37.5736

34.7910, 38.7998,  
4.9369

143.1898,  
156.2498, 53.2000

23.6677, 26.6040,  
2.1522

177.9835,  
193.7247, 72.6503

15.2107, 17.2761,  
0.6466

218.0011,  
236.7582, 96.3431

9.0547, 10.4315,  
0.0000

263.6078,  
285.7348, 124.6970

4.8342, 5.6860,  
0.0000

315.1690,

2.1841, 2.6551,

341.0386, 158.1304

0.0000

373.0501,  
403.0543, 197.0619

■ 0.7343, 0.9544,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 66.4980, 73.3324,  
16.1186

■ 66.4980, 73.3324,  
16.1186

■ 64.9487, 71.2028,  
12.6160

■ 68.3933, 75.6383,  
21.3289


■ 63.6962, 69.2213,  
10.5850


■ 70.6661, 78.1248,  
28.4341


■ 62.9214, 67.8490,  
9.7799


■ 73.3496, 80.8083,  
37.6014

■ 76.4720, 83.7003,  
48.9786

 80.0588, 86.8111,  
62.6999

 84.1338, 90.1503,  
78.8887

 88.7187, 93.7270,  
97.6600

 91.8060, 96.7382,  
108.4414

 92.8767, 98.8796,  
108.7983

# Harmonies

## Analogous

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



85.1956, 73.3324, 19.2663



66.4980, 73.3324, 16.1186



51.4669, 73.3324, 23.1068

# Triad

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



66.4980, 73.3324, 16.1186



45.0451, 73.3324, 152.3727



106.2756, 73.3324, 128.8735

# Complementary

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



66.4980, 73.3324, 16.1186



23.4856, 16.0738, 91.4867

# 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.



91.7996, 73.3324, 191.4975



66.4980, 73.3324, 16.1186



56.2078, 73.3324, 208.6773

# Square

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



66.4980, 73.3324, 16.1186



40.5270, 73.3324, 89.5286



73.0037, 73.3324, 225.4408



110.3076, 73.3324, 70.8889



# Rectangle

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



66.4980, 73.3324, 16.1186



44.8509, 73.3324, 35.6175



73.0037, 73.3324, 225.4408



102.3605, 73.3324, 150.7416

# Sweetspot

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



66.4997, 73.3359, 16.1201



84.7806, 91.8658, 67.2354



43.2068, 25.1036, 13.4316



17.9138, 19.4663, 13.4854



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.



66.4997, 73.3359, 16.1201



67.9416, 74.2207, 12.1950



55.0842, 78.5639, 17.7308



18.5025, 19.7408, 18.2976



33.7620, 36.4806, 5.2620



3.1832, 3.4913, 0.5061



# Inverse Universe

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



23.4856, 16.0738, 91.4867



20.5729, 11.3276, 95.7099



28.5812, 15.8280, 91.1707



16.4841, 17.0450, 21.8065



9.5470, 4.4495, 48.3292



0.9431, 0.5299, 4.4957



# Previews

## White Background



This preview shows how the XYZ color 66.4980, 73.3324, 16.1186 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

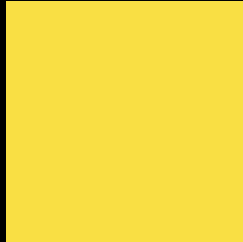
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 66.4980, 73.3324, 16.1186 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 66.4980, 73.3324, 16.1186**

## **Background**



This preview shows how black text looks on a background with the XYZ color 66.4980, 73.3324, 16.1186.



This preview shows how white text looks on a background with the XYZ color 66.4980, 73.3324,



# 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

66.4980, 73.3324, 16.1186

### Protanopia

66.4980, 73.3324, 16.1186

### Deuteranopia

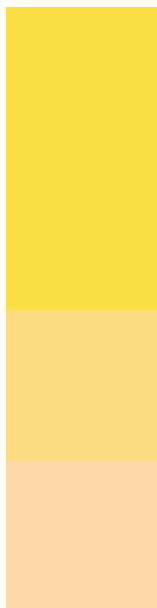
72.3175, 72.9804, 44.4575



## Tritanopia

77.9888, 73.2303, 80.5454

# Trichromacy



## Original Color

66.4980, 73.3324, 16.1186

## Protanomaly

66.4980, 73.3324, 16.1186

## Deuteranomaly

69.7358, 73.1042, 30.8571

## Tritanomaly

71.7835, 72.2735, 46.7260

# Monochromacy



## Original Color

66.4980, 73.3324, 16.1186

## Achromatopsia

63.2451, 66.5387, 72.4607

## Achromatomaly

62.5220, 68.3325, 43.1519

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 66.4980, 73.3324, 16.1186 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(249, 223, 68)` looks like.

```
.text, #text, p{  
    color:rgb(249, 223, 68)  
}
```

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(249, 223, 68) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(249, 223, 68) }
```

## Border

The CSS property to change the border of an element to XYZ 66.4980, 73.3324, 16.1186 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(249, 223, 68) }
```



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

```
.border{ border-color:rgb(249, 223, 68) }
```

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

Here you see how a box with a 4 pixel rgb(249, 223, 68) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(249, 223, 68); -webkit-box-  
shadow:4px 4px 4px 4px rgb(249, 223, 68);  
box-shadow:4px 4px 4px 4px rgb(249, 223,  
68) }
```

# Background

The CSS property to change the background color of an element to XYZ 66.4980, 73.3324, 16.1186 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(249, 223, 68) }
```

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

```
.background{ background-color: rgb(249,  
223, 68) }
```

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