

# Converting Colors

XYZ(70.1233, 84.5378, 12.6215)

Have a look what the booklet for  
XYZ(70.1233, 84.5378, 12.6215)  
contains.

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# **Color**

**XYZ(70.3086, 84.7173,  
12.6464)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F5F500
RGB	245, 245, 0
RGB Percent	96%, 96%, 0%
CMY	0.0392, 0.0392, 0.9999
CMYK	0.00, 0.00, 1.00, 0.04
HSL	60°, 100%, 48%
HSV	60°, 100%, 96%
XYZ	70.3086, 84.7173, 12.6464
YIQ	217.0700, 78.6450, -76.1950

# Conversions

## Conversions Part 2

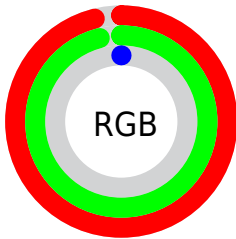
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">0, 245, 0</a>
Decimal	<a href="#">16119040</a>
CIELab	<a href="#">93.76, -20.91, 91.66</a>
CIELCh	<a href="#">94, 94.018, 102.852</a>
Yxy	<a href="#">84.7173, 0.4193, 0.5053</a>
Android (android.graphics.Color)	<a href="#">4294309120 (0xFFFF5F500)</a>
YUV	<a href="#">217.0700, -107.0155, 24.4946</a>
Hunter-Lab	<a href="#">92.0420, -24.7218, 56.2831</a>

# Details

The XYZ color **70.3086, 84.7173, 12.6464** is a light color, and the websafe version is hex **FFFF00**. The color can be described as light saturated yellow. A complement of this color would be **16.4834, 6.5941, 86.7956**, and the grayscale version is **66.6795, 70.1520, 76.3956**.

A 20% lighter version of the original color is **79.0204, 93.5882, 24.4892**, and **37.9648, 46.5855, 6.9910** is the 20% darker color. If you saturate the color by 10%, you get **70.3103, 84.7212, 12.6471**, and if you desaturate by 10%, it is **70.4811, 84.7895, 13.5450**.

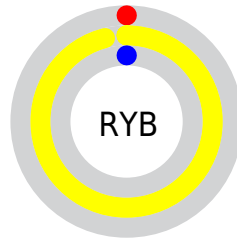
# Distribution



Red (96%)

Green (96%)

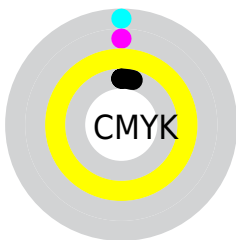
Blue (0%)



Red (0%)

Yellow (96%)

Blue (0%)

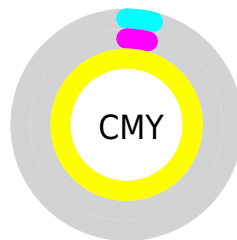


Cyan (0%)

Magenta (0%)

Yellow (100%)

Black (4%)



Cyan (4%)

Magenta (4%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 70.3086, 84.7173, 12.6464 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 70.3086, 84.7173, 12.6464 by changing the saturation by 10% instead.





 70.3086, 84.7173,  
12.6464


 70.3086, 84.7173,  
12.6464


450.8823,  
510.6922, 219.7665


 52.0587, 63.6078,  
7.0577


 118.6726,  
139.9781, 31.3489

 37.2763, 46.3331,  
3.4192


 149.5174,  
174.8983, 45.2997


 25.5961, 32.5088,  
1.3125


 185.2912,  
215.1908, 62.8749

 16.6528, 21.7504,  
0.0720

 226.3593,  
261.2400, 84.4931

 10.0811, 13.6736,  
0.0000

 273.0871,  
313.4303, 110.5729

 5.5154, 7.8940,  
0.0000

 325.8400,

 2.5906, 4.0272,

372.1462, 141.5326

0.0000

384.9833,  
437.7720, 177.7910

■ 0.9411, 1.6888,  
0.0000

■ 0.0000, 0.4164,  
0.0000

■ 70.3086, 84.7173,  
12.6464

■ 70.3086, 84.7173,  
12.6464

■ 70.3103, 84.7212,  
12.6471

■ 70.4811, 84.7895,  
13.5450

■ 70.8660, 84.9435,  
15.5706

■ 71.5316, 85.2098,  
19.0743

■ 72.5178, 85.6043,  
24.2661

■ 73.8580, 86.1404,  
31.3222

■ 75.5815, 86.8299,  
40.3967

■ 77.7146, 87.6831,  
51.6276

■ 80.2810, 88.7097,  
65.1409

■ 83.3029, 89.9185,  
81.0529

# Harmonies

## Analogous

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



95.5205, 84.7173, 13.3690



70.3086, 84.7173, 12.6464



52.0869, 84.7173, 23.7060

# Triad

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



70.3086, 84.7173, 12.6464



50.2067, 84.7173, 220.8948



135.6532, 84.7173, 139.0055

# Complementary

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



70.3086, 84.7173, 12.6464



16.4834, 6.5941, 86.7956

# 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.



117.7805, 84.7173, 234.1976



70.3086, 84.7173, 12.6464



67.1806, 84.7173, 295.8443

# Square

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



70.3086, 84.7173, 12.6464



42.2015, 84.7173, 126.3266



91.6779, 84.7173, 301.6836



136.9762, 84.7173, 64.9175



# Rectangle

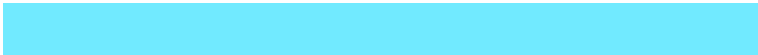
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



70.3086, 84.7173, 12.6464



44.9138, 84.7173, 42.6573



91.6779, 84.7173, 301.6836



131.2356, 84.7173, 170.2692

# Sweetspot

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



70.3105, 84.7213, 12.6481



85.0853, 96.0140, 56.4313



37.6591, 19.4146, 1.7636



17.9888, 20.4618, 10.9045



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.



70.3105, 84.7213, 12.6481



76.9971, 92.7785, 13.8499



40.7547, 69.4847, 11.2649



17.9147, 19.3136, 17.5813



37.8753, 45.6382, 6.8128



3.3289, 4.0112, 0.5988



# Inverse Universe

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



16.4834, 6.5941, 86.7956



18.0501, 7.2201, 95.0500



24.5829, 10.7695, 87.1746



15.5813, 15.9268, 20.7955



8.8790, 3.5516, 46.7556

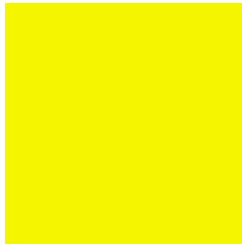


0.7804, 0.3122, 4.1094



# Previews

## White Background



This preview shows how the XYZ color 70.3086, 84.7173, 12.6464 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

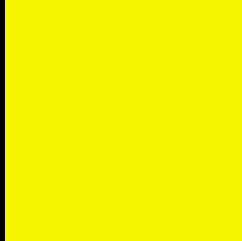
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 70.3086, 84.7173, 12.6464 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 70.3086, 84.7173, 12.6464

## Background



This preview shows how black text looks on a background with the XYZ color 70.3086, 84.7173, 12.6464.



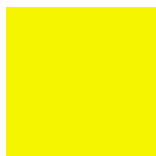
This preview shows how white text looks on a background with the XYZ color 70.3086, 84.7173,



# 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

70.3086, 84.7173, 12.6464



### Protanopia

77.8694, 84.3664, 45.4379



### Deuteranopia

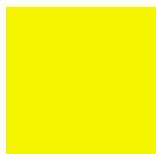
81.9253, 84.6106, 71.0450



## Tritanopia

85.7145, 84.3247, 96.5527

# Trichromacy



## Original Color

70.3086, 84.7173, 12.6464



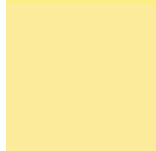
## Protanomaly

73.3420, 83.7887, 24.8777



## Deuteranomaly

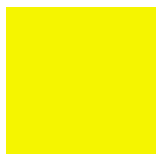
74.5231, 83.3242, 33.9852



## Tritanomaly

75.4084, 82.2924, 42.9199

# Monochromacy



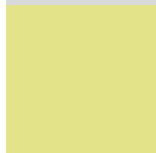
## Original Color

70.3086, 84.7173, 12.6464



## Achromatopsia

65.9525, 69.3872, 75.5626



## Achromatomaly

63.7351, 73.1040, 34.7960

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 70.3086, 84.7173, 12.6464 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(245, 245, 0)` looks like.

```
.text, #text, p{  
    color:rgb(245, 245, 0)  
}
```

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(245, 245, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(245, 245, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 70.3086, 84.7173, 12.6464 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(245, 245, 0) }
```



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

```
.border{ border-color:rgb(245, 245, 0) }
```

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

Here you see how a box with a 4 pixel rgb(245, 245, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(245, 245, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(245, 245, 0);  
box-shadow:4px 4px 4px 4px rgb(245, 245,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 70.3086, 84.7173, 12.6464 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(245, 245, 0) }
```

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

```
.background{ background-color: rgb(245,  
245, 0) }
```

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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