

# Converting Colors

XYZ(63.5018, 73.5894, 16.5425)

Have a look what the booklet for  
XYZ(63.5018, 73.5894, 16.5425)  
contains.

<b>XYZ(63.7426, 73.9210, 16.5388)</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(63.7426, 73.9210,  
16.5388)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EDE445
RGB	237, 228, 69
RGB Percent	93%, 89%, 27%
CMY	0.0706, 0.1059, 0.7294
CMYK	0.00, 0.04, 0.71, 0.07
HSL	57°, 82%, 60%
HSV	57°, 71%, 93%
XYZ	63.7426, 73.9210, 16.5388
YIQ	212.5650, 56.4030, -47.5410

# Conversions

## Conversions Part 2

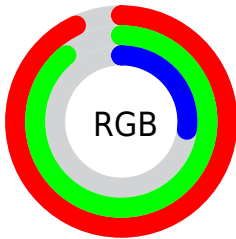
Format	Color
<a href="#">RYB</a>	<a href="#">79, 237, 69</a>
Decimal	<a href="#">15590469</a>
CIELab	<a href="#">88.89, -14.43, 74.12</a>
CIELCh	<a href="#">89, 75.517, 101.019</a>
Yxy	<a href="#">73.9210, 0.4134, 0.4794</a>
Android (android.graphics.Color)	<a href="#">4293780549</a> (0xFFEDE445)
YUV	<a href="#">212.5650, -70.7775, 21.4295</a>
Hunter-Lab	<a href="#">85.9773, -18.1225, 48.7790</a>

# Details

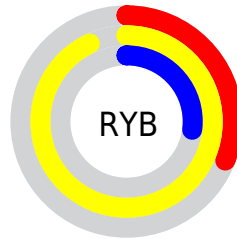
The XYZ color **63.7426, 73.9210, 16.5388** is a light color, and the websafe version is hex **FFFF66**. The color can be described as light muted yellow. A complement of this color would be **20.4649, 12.8283, 81.5176**, and the grayscale version is **63.3883, 66.6895, 72.6248**.

A 20% lighter version of the original color is **80.8308, 94.3123, 34.0225**, and **33.0750, 39.2343, 5.8297** is the 20% darker color. If you saturate the color by 10%, you get **62.8018, 72.9910, 13.2923**, and if you desaturate by 10%, it is **64.9830, 74.9805, 21.3354**.

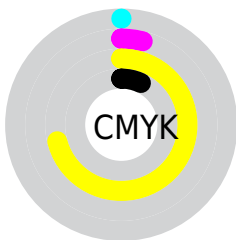
# Distribution



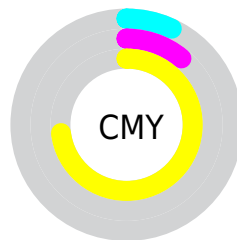
- Red (93%)
- Green (89%)
- Blue (27%)



- Red (31%)
- Yellow (93%)
- Blue (27%)



- Cyan (0%)
- Magenta (4%)
- Yellow (71%)
- Black (7%)



- Cyan (7%)
- Magenta (11%)
- Yellow (73%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 63.7426, 73.9210, 16.5388 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 63.7426, 73.9210, 16.5388 by changing the saturation by 10% instead.



63.7426, 73.9210,  
16.5388

63.7426, 73.9210,  
16.5388

427.8765,  
474.2007, 244.4537

46.7031, 54.7294,  
9.7478

109.3160,  
124.7838, 38.3108

33.0080, 39.1851,  
5.1286

138.5806,  
157.2238, 54.1289

22.2918, 26.9038,  
2.2629

172.6509,  
194.8487, 73.7930

14.1893, 17.5010,  
0.7103

211.8924,  
238.0429, 97.7217

8.3350, 10.5923,  
0.0000

256.6703,  
287.1908, 126.3336

4.3637, 5.7934,  
0.0000

307.3501,

1.9099, 2.7199,

342.6768, 160.0472

0.0000

364.2970,  
404.8853, 199.2811

■ 0.5826, 0.9873,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 63.7426, 73.9210,  
16.5388

■ 63.7426, 73.9210,  
16.5388

■ 62.8018, 72.9910,  
13.2923

■ 64.9830, 74.9805,  
21.3354


■ 62.1180, 72.1652,  
11.3946


■ 66.5492, 76.1716,  
27.8420


■ 61.6645, 71.4838,  
10.5477

■ 68.4700, 77.5086,  
36.2036

■ 70.7699, 79.0014,  
46.5487

 73.4711, 80.6589,  
58.9942

 76.5941, 82.4892,  
73.6480

 80.1580, 84.5001,  
90.6107

 83.5947, 86.4642,  
106.8911

 83.9657, 87.2062,  
107.0148

# Harmonies

## Analogous

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



82.3447, 73.9210, 17.8329



63.7426, 73.9210, 16.5388



49.5927, 73.9210, 25.8617

# Triad

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



63.7426, 73.9210, 16.5388



46.9025, 73.9210, 166.4613



109.0898, 73.9210, 117.9403

# Complementary

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



63.7426, 73.9210, 16.5388



20.4649, 12.8283, 81.5176

# 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.



95.9933, 73.9210, 183.0539



63.7426, 73.9210, 16.5388



59.4190, 73.9210, 218.4496

# Square

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



63.7426, 73.9210, 16.5388



41.0570, 73.9210, 101.3400



77.2065, 73.9210, 225.5761



110.7951, 73.9210, 62.7116



# Rectangle

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



63.7426, 73.9210, 16.5388



43.7413, 73.9210, 40.8499



77.2065, 73.9210, 225.5761



105.7792, 73.9210, 139.8953

# Sweetspot

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



63.7443, 73.9245, 16.5403



86.6880, 95.2029, 69.3433



38.5088, 22.8435, 10.0088



18.3557, 20.2572, 13.9186



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.



63.7443, 73.9245, 16.5403



73.7635, 85.7408, 14.5168



46.7099, 68.9117, 16.4706



16.2789, 17.4807, 16.0348



33.6985, 39.0912, 5.7693



2.6673, 3.1120, 0.4601



# Inverse Universe

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



20.4649, 12.8283, 81.5176



19.9929, 9.9055, 95.4659



28.5359, 16.1047, 81.7246



14.2959, 14.6782, 19.0020



8.4508, 3.5486, 43.9825

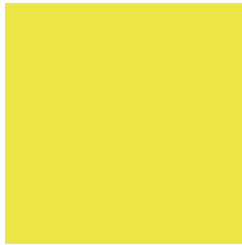


0.6864, 0.3244, 3.4613



# Previews

## White Background



This preview shows how the XYZ color 63.7426, 73.9210, 16.5388 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

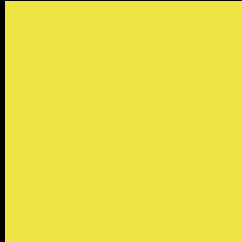
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 63.7426, 73.9210, 16.5388 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 63.7426, 73.9210, 16.5388**

## **Background**



This preview shows how black text looks on a background with the XYZ color 63.7426, 73.9210, 16.5388.



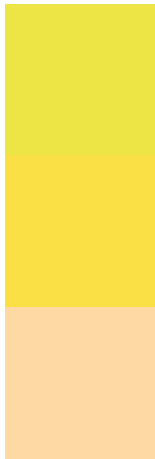
This preview shows how white text looks on a background with the XYZ color 63.7426, 73.9210,



# 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

63.7426, 73.9210, 16.5388

### Protanopia

67.1234, 74.0527, 16.2247

### Deuteranopia

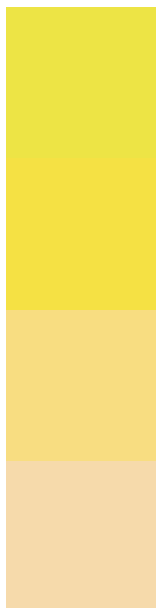
72.7537, 73.5660, 45.4871



## Tritanopia

77.8608, 73.8109, 85.0061

# Trichromacy



## Original Color

63.7426, 73.9210, 16.5388

## Protanomaly

65.6248, 73.6803, 16.2318

## Deuteranomaly

68.5303, 73.2543, 31.2964

## Tritanomaly

70.4281, 72.6759, 48.8440

# Monochromacy



## Original Color

63.7426, 73.9210, 16.5388

## Achromatopsia

63.2451, 66.5387, 72.4607

## Achromatomaly

61.6286, 68.2456, 43.6428

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 63.7426, 73.9210, 16.5388 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(237, 228, 69)` looks like.

```
.text, #text, p{  
    color:rgb(237, 228, 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(237, 228, 69) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(237, 228, 69) }
```

## Border

The CSS property to change the border of an element to XYZ 63.7426, 73.9210, 16.5388 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(237, 228, 69) }
```



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

```
.border{ border-color:rgb(237, 228, 69) }
```

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

Here you see how a box with a 4 pixel `rgb(237, 228, 69)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(237, 228, 69); -webkit-box-  
shadow:4px 4px 4px 4px rgb(237, 228, 69);  
box-shadow:4px 4px 4px 4px rgb(237, 228,  
69) }
```

# Background

The CSS property to change the background color of an element to XYZ 63.7426, 73.9210, 16.5388 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(237, 228, 69) }
```

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

```
.background{ background-color: rgb(237,  
228, 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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