

# Converting Colors

XYZ(64.7009, 75.0817, 42.5346)

Have a look what the booklet for  
XYZ(64.7009, 75.0817, 42.5346)  
contains.

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# Color

**XYZ(64.7009, 75.0817,  
42.5346)**

# Conversions

Conversions Part 1	
Format	Color
Hex	DEE79C
RGB	222, 231, 156
RGB Percent	87%, 91%, 61%
CMY	0.1294, 0.0941, 0.3882
CMYK	0.04, 0.00, 0.32, 0.09
HSL	67°, 61%, 76%
HSV	67°, 32%, 91%
XYZ	64.7009, 75.0817, 42.5346
YIQ	219.7590, 18.7110, -25.2330

# Conversions

## Conversions Part 2

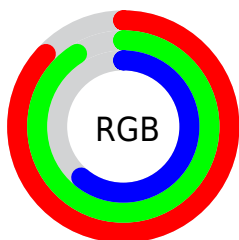
Format	Color
<a href="#">RYB</a>	<a href="#">156, 231, 165</a>
Decimal	<a href="#">14608284</a>
CIELab	<a href="#">89.43, -14.61, 35.57</a>
CIELCh	<a href="#">89, 38.456, 112.321</a>
Yxy	<a href="#">75.0817, 0.3549, 0.4118</a>
Android (android.graphics.Color)	<a href="#">4292798364</a> (0xFFDEE79C)
YUV	<a href="#">219.7590, -31.4332, 1.9654</a>
Hunter-Lab	<a href="#">86.6497, -18.3519, 31.5505</a>

# Details

The XYZ color **64.7009, 75.0817, 42.5346** is a light color, and the websafe version is hex **CCCC99**. A complement of this color would be **41.8321, 37.5477, 80.6482**, and the grayscale version is **68.0642, 71.6088, 77.9820**.

A 20% lighter version of the original color is **88.7579, 97.4831, 75.7661**, and **33.5545, 39.7664, 19.0039** is the 20% darker color. If you saturate the color by 10%, you get **62.0861, 73.9410, 33.1545**, and if you desaturate by 10%, it is **67.7055, 76.3851, 53.8777**.

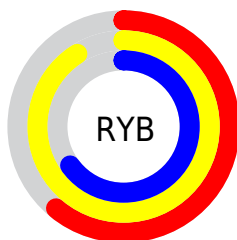
# Distribution



Red (87%)

Green (91%)

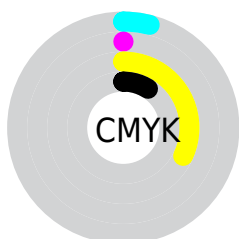
Blue (61%)



Red (61%)

Yellow (91%)

Blue (65%)

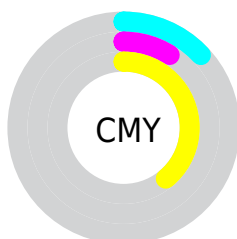


Cyan (4%)

Magenta (0%)

Yellow (32%)

Black (9%)



Cyan (13%)

Magenta (9%)


Yellow (39%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 64.7009, 75.0817, 42.5346 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 64.7009, 75.0817, 42.5346 by changing the saturation by 10% instead.





 64.7009, 75.0817,  
42.5346


 64.7009, 75.0817,  
42.5346


431.2786,  
478.1983, 372.5591

 47.4824, 55.6798,  
29.1914


 110.6878,  
126.4280, 80.2869

 33.6267, 39.9463,  
18.9789


 140.1870,  
159.1412, 105.5331

 22.7685, 27.4967,  
11.4783


174.5104,  
197.0603, 135.5840

 14.5424, 17.9466,  
6.2713

214.0234,  
240.5698, 170.8583

 8.5831, 10.9116,  
2.9393

259.0913,  
290.0539, 211.7744

 4.5252, 6.0074,  
1.0637


310.0796,


 2.0033, 2.8496,


345.8971, 258.7509


0.0000


367.3536,  
408.4838, 312.2063


 0.6358, 1.0537,  
0.0000


 0.0000, 0.0000,  
0.0000


 64.7009, 75.0817,  
42.5346


 64.7009, 75.0817,  
42.5346

 62.0861, 73.9410,  
33.1545


 67.7055, 76.3851,  
53.8777


 59.8342, 72.9446,  
25.6213


 71.1138, 77.8490,  
67.2818


 57.9238, 72.0863,  
19.8140


 74.9459, 79.4840,  
82.8437


 56.3287, 71.3557,  
15.5952


 79.2188, 81.2971,  
100.6530


 55.0188, 70.7408,  
12.8069


 81.1759, 82.1853,  
106.1927


 53.9578, 70.2270,  
11.2581

 82.1033, 82.6635,  
106.2361

 53.2797, 69.8895,  
10.6819

 83.0451, 83.1490,  
106.2802

 84.0013, 83.6419,  
106.3249

 84.9721, 84.1424,  
106.3703

# Harmonies

## Analogous

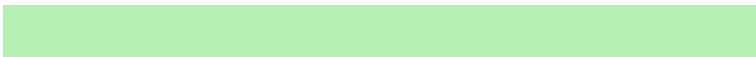
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



73.8110, 75.0817, 40.3587



64.7009, 75.0817, 42.5346



57.9633, 75.0817, 53.9617

# Triad

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



64.7009, 75.0817, 42.5346



60.8523, 75.0817, 130.0751



90.8650, 75.0817, 88.8816

# Complementary

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



64.7009, 75.0817, 42.5346



41.8321, 37.5477, 80.6482

# Split Complementary

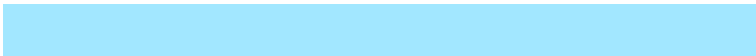
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



86.6832, 75.0817, 117.7425



64.7009, 75.0817, 42.5346



68.9695, 75.0817, 144.7049

# Square

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



64.7009, 75.0817, 42.5346



55.8814, 75.0817, 103.0830



78.4672, 75.0817, 139.7542



89.4683, 75.0817, 63.5861



# Rectangle

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



64.7009, 75.0817, 42.5346



55.4560, 75.0817, 66.9856



78.4672, 75.0817, 139.7542



90.0532, 75.0817, 98.5413

# Sweetspot

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



64.7028, 75.0851, 42.5362



90.0953, 97.8891, 88.6412



52.3684, 46.2114, 37.6131



19.1445, 20.8926, 18.4113



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.



64.7028, 75.0851, 42.5362



78.7054, 92.9704, 45.0499



54.5266, 69.8391, 42.0600



15.4223, 16.7248, 15.3198



29.9380, 39.2151, 5.9914



2.2606, 2.9227, 0.4450



# Inverse Universe

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



41.8321, 37.5477, 80.6482



45.9033, 39.1152, 99.7384



50.7395, 42.1396, 81.0650



13.7428, 13.9696, 18.1164



8.4047, 3.3987, 42.5962

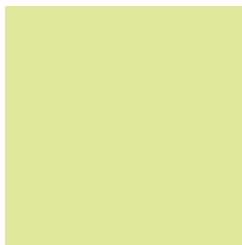


0.6742, 0.2785, 3.1502



# Previews

## White Background



This preview shows how the XYZ color 64.7009, 75.0817, 42.5346 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 64.7009, 75.0817, 42.5346 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

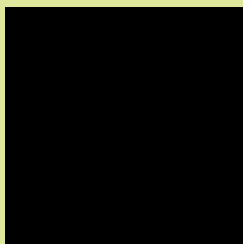
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

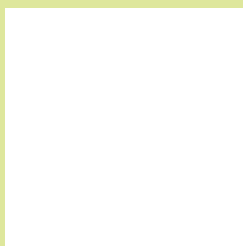
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 64.7009, 75.0817, 42.5346**

## **Background**



This preview shows how black text looks on a background with the XYZ color 64.7009, 75.0817, 42.5346.



This preview shows how white text looks on a background with the XYZ color 64.7009, 75.0817,



# 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

64.7009, 75.0817, 42.5346

### Protanopia

69.3676, 74.6659, 40.8929

### Deuteranopia

74.7549, 74.7802, 54.7500



## Tritanopia

74.5678, 75.0418, 91.4433

# Trichromacy

	<b>Original Color</b> 64.7009, 75.0817, 42.5346
	<b>Protanomaly</b> 67.5628, 74.9334, 41.4745
	<b>Deuteranomaly</b> 70.8926, 74.8472, 50.2457
	<b>Tritanomaly</b> 70.3053, 74.8985, 70.4259

# Monochromacy

	<b>Original Color</b> 64.7009, 75.0817, 42.5346
	<b>Achromatopsia</b> 68.0267, 71.5694, 77.9390
	<b>Achromatomaly</b> 66.5525, 72.7147, 63.3510

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 64.7009, 75.0817, 42.5346 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(222, 231, 156) looks like.

```
.text, #text, p{  
    color:rgb(222, 231, 156)  
}
```

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(222, 231, 156) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(222, 231, 156) }
```

## Border

The CSS property to change the border of an element to XYZ 64.7009, 75.0817, 42.5346 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(222, 231, 156) }
```



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

```
.border{ border-color:rgb(222, 231, 156) }
```

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

Here you see how a box with a 4 pixel rgb(222, 231, 156) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(222, 231, 156); -webkit-box-  
shadow:4px 4px 4px 4px rgb(222, 231, 156);  
box-shadow:4px 4px 4px 4px rgb(222, 231,  
156) }
```

# Background

The CSS property to change the background color of an element to XYZ 64.7009, 75.0817, 42.5346 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(222, 231, 156) }
```

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

```
.background{ background-color: rgb(222,  
231, 156) }
```

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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