

# Converting Colors

XYZ(67.7402, 82.9670, 25.1416)

Have a look what the booklet for  
XYZ(67.7402, 82.9670, 25.1416)  
contains.

<b>XYZ(67.6838, 83.0871, 25.0405)</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(67.6838, 83.0871,  
25.0405)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E6F566
RGB	230, 245, 102
RGB Percent	90%, 96%, 40%
CMY	0.0980, 0.0392, 0.6000
CMYK	0.06, 0.00, 0.58, 0.04
HSL	66°, 88%, 68%
HSV	66°, 58%, 96%
XYZ	67.6838, 83.0871, 25.0405
YIQ	224.2130, 36.9630, -47.6530

# Conversions

## Conversions Part 2

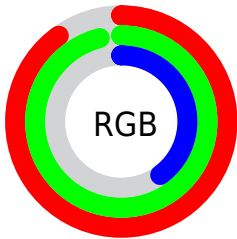
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">102, 245, 117</a>
Decimal	<a href="#">15136102</a>
CIELab	<a href="#">93.05, -23.56, 65.49</a>
CIELCh	<a href="#">93, 69.595, 109.784</a>
Yxy	<a href="#">83.0871, 0.3850, 0.4726</a>
Android (android.graphics.Color)	<a href="#">4293326182 (0xFFE6F566)</a>
YUV	<a href="#">224.2130, -60.2510, 5.0752</a>
Hunter-Lab	<a href="#">91.1521, -26.9734, 47.5189</a>

# Details

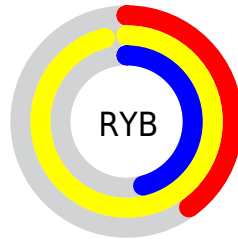
The XYZ color **67.6838, 83.0871, 25.0405** is a light color, and the websafe version is hex **FFFF66**. A complement of this color would be **28.5718, 19.8792, 88.7224**, and the grayscale version is **71.4049, 75.1235, 81.8095**.

A 20% lighter version of the original color is **83.1716, 95.2486, 46.3490**, and **35.6845, 45.3553, 9.3563** is the 20% darker color. If you saturate the color by 10%, you get **65.8256, 82.2522, 19.5217**, and if you desaturate by 10%, it is **69.9171, 84.0795, 32.4539**.

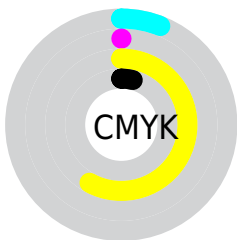
# Distribution



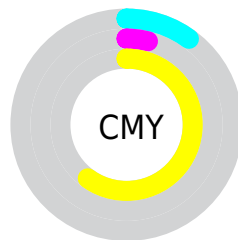
- Red (90%)
- Green (96%)
- Blue (40%)



- Red (40%)
- Yellow (96%)
- Blue (46%)



- Cyan (6%)
- Magenta (0%)
- Yellow (58%)
- Black (4%)



- Cyan (10%)
- Magenta (4%)
- Yellow (60%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 67.6838, 83.0871, 25.0405 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 67.6838, 83.0871, 25.0405 by changing the saturation by 10% instead.



67.6838, 83.0871,  
25.0405

67.6838, 83.0871,  
25.0405

441.7692,  
505.2768, 291.4937

49.9133, 62.2620,  
15.8879

114.9441,  
137.6974, 52.6879

35.5620, 45.2444,  
9.2914

145.1645,  
172.2515, 72.0197

24.2647, 31.6500,  
4.8323

180.2657,  
212.1506, 95.5818

15.6559, 21.0943,  
2.0922

220.6129,  
257.7793, 123.7926

9.3703, 13.1930,  
0.6111

266.5715,  
309.5218, 157.0706

5.0425, 7.5616,  
0.0000

318.5068,

2.3072, 3.8157,

367.7627, 195.8344

0.0000

376.7843,  
432.8862, 240.5026

■ 0.7984, 1.5710,  
0.0000

■ 0.0000, 0.3379,  
0.0000

■ 67.6838, 83.0871,  
25.0405

■ 67.6838, 83.0871,  
25.0405

■ 65.8256, 82.2522,  
19.5217

■ 69.9171, 84.0795,  
32.4539

■ 64.3038, 81.5503,  
15.7201


■ 72.5484, 85.2294,  
41.9078


■ 63.0819, 80.9697,  
13.4343


■ 75.6055, 86.5511,  
53.5398

■ 62.1053, 80.4886,  
12.3775


■ 79.1121, 88.0540,  
67.4742


 61.9566, 80.4145,  
12.2561

 83.0899, 89.7469,  
83.8260

 87.5595, 91.6379,  
102.7021

 89.4147, 92.4845,  
107.7464

 90.3326, 92.9577,  
107.7893

 91.2631, 93.4374,  
107.8329

# Harmonies

## Analogous

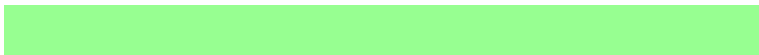
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



85.3576, 83.0871, 23.2432



67.6838, 83.0871, 25.0405



55.1003, 83.0871, 39.8717

# Triad

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



67.6838, 83.0871, 25.0405



58.4197, 83.0871, 190.9059



118.7675, 83.0871, 109.4794

# Complementary

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



67.6838, 83.0871, 25.0405



28.5718, 19.8792, 88.7224

# 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.



108.9001, 83.0871, 172.0668



67.6838, 83.0871, 25.0405



72.9127, 83.0871, 229.7219

# Square

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



67.6838, 83.0871, 25.0405



50.3499, 83.0871, 128.9095



91.4498, 83.0871, 221.7432



116.7906, 83.0871, 60.5464



# Rectangle

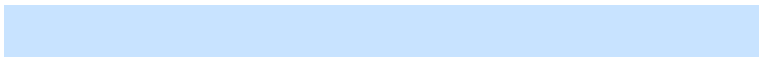
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



67.6838, 83.0871, 25.0405



50.4168, 83.0871, 60.0047



91.4498, 83.0871, 221.7432



116.6735, 83.0871, 129.8108

# Sweetspot

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



67.6858, 83.0909, 25.0422



86.7711, 96.4863, 74.4369



46.3374, 32.9341, 16.4862



18.3207, 20.5444, 14.9173



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.



67.6858, 83.0909, 25.0422



71.7631, 89.9276, 20.5044



49.3916, 73.6599, 24.1861



17.7333, 19.2201, 17.5728



33.4457, 43.3547, 6.6055



2.9878, 3.8353, 0.5828



# Inverse Universe

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



28.5718, 19.8792, 88.7224



25.4125, 14.9034, 96.1450



41.9253, 26.7632, 89.3473



15.7425, 16.0099, 20.8031



9.1580, 3.6954, 46.7686

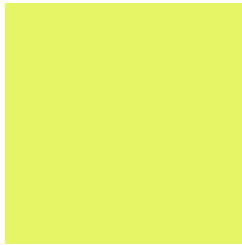


0.8574, 0.3519, 4.1130



# Previews

## White Background



This preview shows how the XYZ color 67.6838, 83.0871, 25.0405 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 67.6838, 83.0871, 25.0405 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 67.6838, 83.0871, 25.0405**

## **Background**



This preview shows how black text looks on a background with the XYZ color 67.6838, 83.0871, 25.0405.



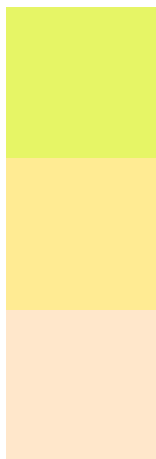
This preview shows how white text looks on a background with the XYZ color 67.6838, 83.0871,



# 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

67.6838, 83.0871, 25.0405

### Protanopia

76.2148, 82.7832, 39.5656

### Deuteranopia

80.5954, 82.7236, 68.2193



## Tritanopia

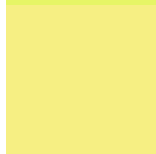
82.8963, 82.7834, 100.4166

# Trichromacy



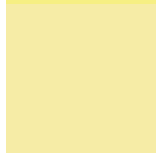
## Original Color

67.6838, 83.0871, 25.0405



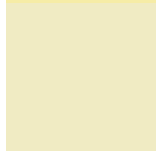
## Protanomaly

72.9693, 82.9645, 33.6406



## Deuteranomaly

74.8844, 82.3369, 48.0222



## Tritanomaly

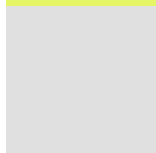
75.4938, 81.8821, 63.4556

# Monochromacy



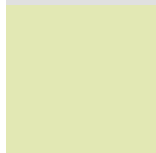
## Original Color

67.6838, 83.0871, 25.0405



## Achromatopsia

70.8507, 74.5404, 81.1745



## Achromatomaly

68.4589, 77.1773, 54.4686

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 67.6838, 83.0871, 25.0405 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(230, 245, 102)` looks like.

```
.text, #text, p{  
    color:rgb(230, 245, 102)  
}
```

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(230, 245, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(230, 245, 102) }
```

## Border

The CSS property to change the border of an element to XYZ 67.6838, 83.0871, 25.0405 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(230, 245, 102) }
```



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

```
.border{ border-color:rgb(230, 245, 102) }
```

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

Here you see how a box with a 4 pixel rgb(230, 245, 102) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(230, 245, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(230, 245, 102);  
box-shadow:4px 4px 4px 4px rgb(230, 245,  
102) }
```

# Background

The CSS property to change the background color of an element to XYZ 67.6838, 83.0871, 25.0405 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(230, 245, 102) }
```

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

```
.background{ background-color: rgb(230,  
245, 102) }
```

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