

# Converting Colors

XYZ(40.6479, 65.9109, 33.4814)

Have a look what the booklet for  
XYZ(40.6479, 65.9109, 33.4814)  
contains.

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# Color

**XYZ(40.6566, 65.8414,  
33.4875)**

# Conversions

## Conversions Part 1

Format	Color
Hex	68EE87
RGB	104, 238, 135
RGB Percent	41%, 93%, 53%
CMY	0.5922, 0.0666, 0.4706
CMYK	0.56, 0.00, 0.43, 0.07
HSL	134°, 80%, 67%
HSV	134°, 56%, 93%
XYZ	40.6566, 65.8414, 33.4875
YIQ	186.1920, -46.8010, -60.4410

# Conversions

## Conversions Part 2

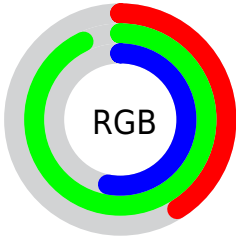
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">104, 213, 238</a>
Decimal	<a href="#">6876807</a>
CIELab	<a href="#">84.92, -58.25, 38.99</a>
CIElCh	<a href="#">85, 70.093, 146.201</a>
Yxy	<a href="#">65.8414, 0.2904, 0.4703</a>
Android (android.graphics.Color)	<a href="#">4285066887 (0xFF68EE87)</a>
YUV	<a href="#">186.1920, -25.2377, -72.0824</a>
Hunter-Lab	<a href="#">81.1427, -52.5622, 32.3310</a>

# Details

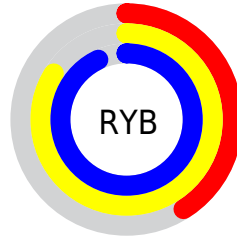
The XYZ color **40.6566, 65.8414, 33.4875** is a light color, and the websafe version is hex **66FF99**. A complement of this color would be **51.4746, 32.5839, 62.6096**, and the grayscale version is **46.9370, 49.3814, 53.7763**.

A 20% lighter version of the original color is **60.2551, 83.0866, 61.0057**, and **18.6503, 33.9636, 13.7563** is the 20% darker color. If you saturate the color by 10%, you get **37.0948, 64.1434, 27.1657**, and if you desaturate by 10%, it is **45.2224, 68.0352, 41.0144**.

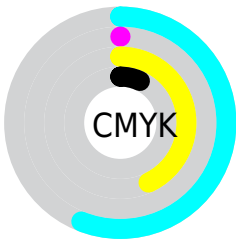
# Distribution



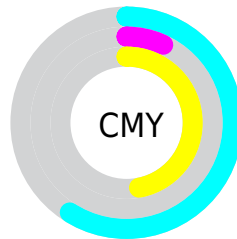
- Red (41%)
- Green (93%)
- Blue (53%)



- Red (41%)
- Yellow (84%)
- Blue (93%)



- Cyan (56%)
- Magenta (0%)
- Yellow (43%)
- Black (7%)



- Cyan (59%)
- Magenta (7%)
- Yellow (47%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.6566, 65.8414, 33.4875 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 40.6566, 65.8414, 33.4875 by changing the saturation by 10% instead.





 40.6566, 65.8414,  
33.4875


 40.6566, 65.8414,  
33.4875


339.9705,  
445.8095, 332.5399


 28.2373, 48.1437,  
22.2260


 75.4403, 113.2587,  
66.2606

 18.6460, 33.9407,  
13.8231


 98.5355, 143.7470,  
88.6094

 11.5173, 22.8480,  
7.8604


 125.9201,  
179.2676, 115.4909

 6.4857, 14.4813,  
3.9193

157.9593,  
220.2050, 147.3238

 3.1861, 8.4562,  
1.5812

195.0186,  
266.9435, 184.5266

 1.2529, 4.3882,  
0.2773

237.4633,

 0.1475, 1.8930,

319.8674, 227.5179

0.0000

285.6588,  
379.3613, 276.7161

■ 0.0000, 0.5442,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 40.6566, 65.8414,  
33.4875

■ 40.6566, 65.8414,  
33.4875

■ 37.0948, 64.1434,  
27.1657

■ 45.2224, 68.0352,  
41.0144

■ 34.4534, 62.8937,  
21.9819


■ 50.8575, 70.7516,  
49.8002


■ 32.6427, 62.0494,  
17.8690

■ 57.6273, 74.0250,  
59.9006

■ 31.5507, 61.5543,  
14.7507

■ 65.5902, 77.8845,  
71.3667

 31.2669, 61.4281,  
13.8311

 74.8009, 82.3572,  
84.2470

 85.3105, 87.4686,  
98.5875

 89.8658, 89.6316,  
107.1719

# Harmonies

## Analogous

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



50.1508, 65.8414, 18.6651



40.6566, 65.8414, 33.4875



36.9875, 65.8414, 66.1019

# Triad

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



40.6566, 65.8414, 33.4875



60.5973, 65.8414, 197.5472



93.8381, 65.8414, 39.8366

# Complementary

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



40.6566, 65.8414, 33.4875



51.4746, 32.5839, 62.6096

# 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.



97.8800, 65.8414, 77.5847



40.6566, 65.8414, 33.4875



76.9105, 65.8414, 180.9134

# Square

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



40.6566, 65.8414, 33.4875



47.2149, 65.8414, 170.4810



91.2367, 65.8414, 131.4940



80.9627, 65.8414, 21.1047



# Rectangle

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



40.6566, 65.8414, 33.4875



37.7926, 65.8414, 98.6831



91.2367, 65.8414, 131.4940



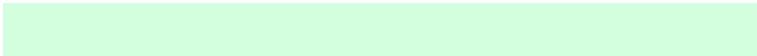
96.3587, 65.8414, 50.1315

# Sweetspot

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



40.6583, 65.8441, 33.4890



75.9524, 90.7218, 82.3898



59.3607, 75.7021, 24.5804



15.8350, 19.2136, 17.0333



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.



40.6583, 65.8441, 33.4890



42.7003, 74.6941, 30.4871



46.7145, 68.2666, 65.3808



15.7157, 17.7163, 17.5258



17.4840, 34.2856, 7.9317



1.4915, 2.8671, 0.8548



# Inverse Universe

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



51.4746, 32.5839, 62.6096



56.4780, 32.1348, 67.4377



45.0920, 30.0308, 28.9988



16.2887, 15.9652, 19.0765



24.4884, 12.0678, 26.2864

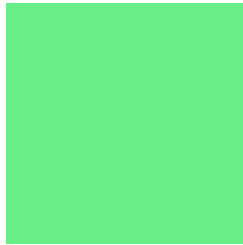


2.0748, 1.0189, 2.3845



# Previews

## White Background



This preview shows how the XYZ color 40.6566, 65.8414, 33.4875 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 40.6566, 65.8414, 33.4875 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

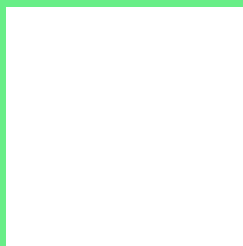
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 40.6566, 65.8414, 33.4875**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.6566, 65.8414, 33.4875.



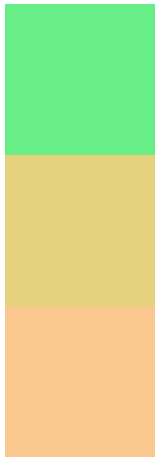
This preview shows how white text looks on a background with the XYZ color 40.6566, 65.8414,



# 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

40.6566, 65.8414, 33.4875

### Protanopia

59.3814, 64.3968, 28.7021

### Deuteranopia

65.7043, 64.2961, 35.3330



## Tritanopia

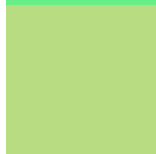
52.7701, 65.2876, 95.4084

# Trichromacy



## Original Color

40.6566, 65.8414, 33.4875



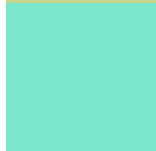
## Protanomaly

49.3228, 62.9617, 30.3221



## Deuteranomaly

52.1430, 62.0220, 34.4225



## Tritanomaly

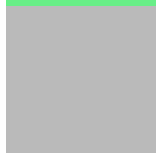
47.2219, 65.0908, 67.2017

# Monochromacy



## Original Color

40.6566, 65.8414, 33.4875



## Achromatopsia

46.6715, 49.1021, 53.4722



## Achromatomaly

42.5167, 53.5206, 44.6489

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.6566, 65.8414, 33.4875 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(104, 238, 135)` looks like.

```
.text, #text, p{  
    color:rgb(104, 238, 135)  
}
```

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(104, 238, 135) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(104, 238, 135) }
```

## Border

The CSS property to change the border of an element to XYZ 40.6566, 65.8414, 33.4875 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(104, 238, 135) }
```



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

```
.border{ border-color:rgb(104, 238, 135) }
```

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

Here you see how a box with a 4 pixel `rgb(104, 238, 135)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(104, 238, 135); -webkit-box-  
shadow:4px 4px 4px 4px rgb(104, 238, 135);  
box-shadow:4px 4px 4px 4px rgb(104, 238,  
135) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.6566, 65.8414, 33.4875 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(104, 238, 135) }
```

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

```
.background{ background-color: rgb(104,  
238, 135) }
```

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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