

# Converting Colors

XYZ(40.9300, 64.8990, 16.3983)

Have a look what the booklet for  
XYZ(40.9300, 64.8990, 16.3983)  
contains.

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# Color

**XYZ(40.9990, 65.1058,  
16.3670)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	88EB47
RGB	136, 235, 71
RGB Percent	53%, 92%, 28%
CMY	0.4667, 0.0784, 0.7215
CMYK	0.42, 0.00, 0.70, 0.08
HSL	96°, 80%, 60%
HSV	96°, 70%, 92%
XYZ	40.9990, 65.1058, 16.3670
YIQ	186.7030, -6.3600, -71.9920

# Conversions

## Conversions Part 2

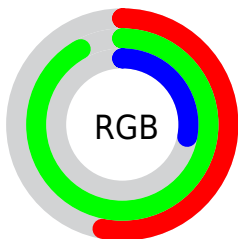
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">71, 235, 170</a>
Decimal	<a href="#">8973127</a>
CIELab	<a href="#">84.54, -55.57, 67.00</a>
CIELCh	<a href="#">85, 87.045, 129.670</a>
Yxy	<a href="#">65.1058, 0.3348, 0.5316</a>
Android (android.graphics.Color)	<a href="#">4287163207 (0xFF88EB47)</a>
YUV	<a href="#">186.7030, -57.0416, -44.4665</a>
Hunter-Lab	<a href="#">80.6882, -50.5055, 44.4552</a>

# Details

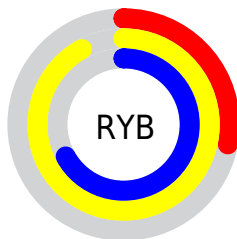
The XYZ color **40.9990, 65.1058, 16.3670** is a dark color, and the websafe version is hex **99FF66**. The color can be described as middle muted chartreuse. A complement of this color would be **33.8294, 19.0528, 80.4954**, and the grayscale version is **47.3821, 49.8497, 54.2863**.

A 20% lighter version of the original color is **62.1620, 84.6806, 33.4908**, and **18.8220, 33.3366, 5.4426** is the 20% darker color. If you saturate the color by 10%, you get **38.2326, 63.7526, 13.0335**, and if you desaturate by 10%, it is **44.3650, 66.7384, 21.2526**.

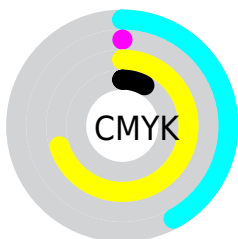
# Distribution



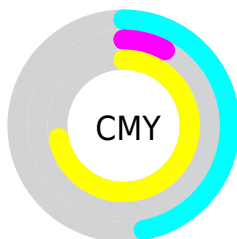
- Red (53%)
- Green (92%)
- Blue (28%)



- Red (28%)
- Yellow (92%)
- Blue (67%)



- Cyan (42%)
- Magenta (0%)
- Yellow (70%)
- Black (8%)




- Cyan (47%)
- Magenta (8%)
- Yellow (72%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.9990, 65.1058, 16.3670 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 40.9990, 65.1058, 16.3670 by changing the saturation by 10% instead.





 40.9990, 65.1058,  
16.3670


 40.9990, 65.1058,  
16.3670


341.3791,  
443.1721, 243.4169

 28.5060, 47.5469,  
9.6271


 75.9571, 112.2020,  
38.0098

 18.8498, 33.4682,  
5.0500


 99.1529, 142.5080,  
53.7497


 11.6652, 22.4853,  
2.2174


 126.6469,  
177.8318, 73.3267

 6.5867, 14.2140,  
0.6844

 158.8046,  
218.5579, 97.1594

 3.2490, 8.2696,  
0.0000

 195.9914,  
265.0705, 125.6661

 1.2868, 4.2680,  
0.0000

238.5724,

 0.1733, 1.8246,

317.7542, 159.2656

0.0000

286.9132,  
376.9932, 198.3764

■ 0.0000, 0.5024,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 40.9990, 65.1058,  
16.3670

■ 40.9990, 65.1058,  
16.3670

■ 38.2326, 63.7526,  
13.0335

■ 44.3650, 66.7384,  
21.2526

■ 36.0135, 62.6501,  
11.0590

■ 48.3672, 68.6599,  
27.8450


■ 34.2712, 61.7706,  
10.1311


■ 53.0443, 70.8891,  
36.2847


■ 34.2375, 61.7536,  
10.1151

■ 58.4300, 73.4406,  
46.6967

 64.5556, 76.3282,  
59.1949

 71.4504, 79.5646,  
73.8845

 79.1418, 83.1618,  
90.8638

 87.0037, 86.8704,  
106.7898

 88.9997, 87.8994,  
106.8832

# Harmonies

## Analogous

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



55.8265, 65.1058, 9.1285



40.9990, 65.1058, 16.3670



33.0875, 65.1058, 39.8834

# Triad

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



40.9990, 65.1058, 16.3670



49.8091, 65.1058, 225.5835



106.3990, 65.1058, 54.4213

# Complementary

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



40.9990, 65.1058, 16.3670



33.8294, 19.0528, 80.4954

# 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.



103.8464, 65.1058, 114.8407



40.9990, 65.1058, 16.3670



68.3584, 65.1058, 236.8761

# Square

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



40.9990, 65.1058, 16.3670



37.3877, 65.1058, 163.2501



88.8677, 65.1058, 188.9572



95.2499, 65.1058, 22.2349



# Rectangle

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



40.9990, 65.1058, 16.3670



31.5812, 65.1058, 70.2761



88.8677, 65.1058, 188.9572



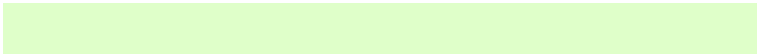
107.1603, 65.1058, 71.5058

# Sweetspot

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



41.0005, 65.1086, 16.3684



76.6862, 91.3942, 69.1354



49.6634, 46.6448, 12.3480



15.9639, 19.3502, 13.8696



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.



41.0005, 65.1086, 16.3684



44.7152, 76.0908, 14.4098



34.0455, 61.4539, 19.1713



15.4332, 17.1533, 16.0162



19.1881, 34.4363, 5.6356



1.6123, 2.7585, 0.4475



# Inverse Universe

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



33.8294, 19.0528, 80.4954



35.4375, 17.3504, 96.0889



49.2503, 27.2638, 69.4120



15.1037, 14.9987, 19.0212



14.6890, 6.6084, 44.2443

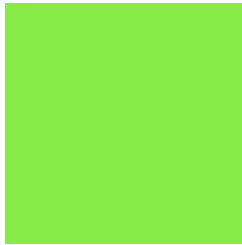


1.2612, 0.5745, 3.4793



# Previews

## White Background



This preview shows how the XYZ color 40.9990, 65.1058, 16.3670 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 40.9990, 65.1058, 16.3670 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

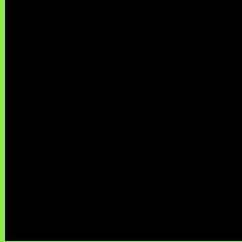
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 40.9990, 65.1058, 16.3670

## Background



This preview shows how black text looks on a background with the XYZ color 40.9990, 65.1058, 16.3670.



This preview shows how white text looks on a background with the XYZ color 40.9990, 65.1058,



# 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

40.9990, 65.1058, 16.3670

### Protanopia

58.2330, 64.1255, 14.1587

### Deuteranopia

64.9411, 64.1591, 23.7130



## Tritanopia

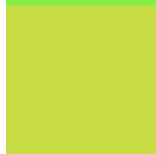
55.5179, 64.4588, 89.6365

# Trichromacy



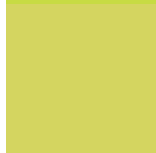
## Original Color

40.9990, 65.1058, 16.3670



## Protanomaly

49.8978, 63.2104, 14.8811



## Deuteranomaly

53.0569, 62.4301, 20.3201



## Tritanomaly

47.9979, 63.7971, 51.3793

# Monochromacy



## Original Color

40.9990, 65.1058, 16.3670



## Achromatopsia

47.2335, 49.6933, 54.1160



## Achromatomaly

42.8521, 53.5549, 34.8666

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.9990, 65.1058, 16.3670 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(136, 235, 71)` looks like.

```
.text, #text, p{  
    color:rgb(136, 235, 71)  
}
```

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(136, 235, 71) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(136, 235, 71) }
```

## Border

The CSS property to change the border of an element to XYZ 40.9990, 65.1058, 16.3670 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(136, 235, 71) }
```



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

```
.border{ border-color:rgb(136, 235, 71) }
```

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

Here you see how a box with a 4 pixel `rgb(136, 235, 71)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(136, 235, 71); -webkit-box-  
shadow:4px 4px 4px 4px rgb(136, 235, 71);  
box-shadow:4px 4px 4px 4px rgb(136, 235,  
71) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.9990, 65.1058, 16.3670 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(136, 235, 71) }
```

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

```
.background{ background-color: rgb(136,  
235, 71) }
```

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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