

# Converting Colors

XYZ(40.6000, 63.0848, 16.7451)

Have a look what the booklet for  
XYZ(40.6000, 63.0848, 16.7451)  
contains.

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# Color

**XYZ(40.6611, 63.2353,  
16.7192)**

# Conversions

## Conversions Part 1

Format	Color
Hex	8CE74B
RGB	140, 231, 75
RGB Percent	55%, 91%, 29%
CMY	0.4510, 0.0941, 0.7059
CMYK	0.39, 0.00, 0.68, 0.09
HSL	95°, 76%, 60%
HSV	95°, 68%, 91%
XYZ	40.6611, 63.2353, 16.7192
YIQ	186.0070, -4.1600, -67.8080

# Conversions

## Conversions Part 2

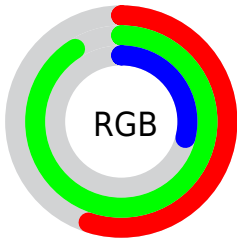
Format	Color
<a href="#">RYB</a>	<a href="#">75, 231, 166</a>
Decimal	<a href="#">9234251</a>
CIELab	<a href="#">83.57, -52.42, 64.57</a>
CIElCh	<a href="#">84, 83.165, 129.070</a>
Yxy	<a href="#">63.2353, 0.3371, 0.5243</a>
Android (android.graphics.Color)	<a href="#">4287424331 (0xFF8CE74B)</a>
YUV	<a href="#">186.0070, -54.7265, -40.3481</a>
Hunter-Lab	<a href="#">79.5206, -47.8891, 43.1987</a>

# Details

The XYZ color **40.6611, 63.2353, 16.7192** 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 **32.6691, 18.9108, 77.5332**, and the grayscale version is **46.9764, 49.4228, 53.8214**.

A 20% lighter version of the original color is **63.4099, 85.3008, 34.5954**, and **18.7233, 32.4093, 5.2688** is the 20% darker color. If you saturate the color by 10%, you get **37.8765, 61.8771, 13.1848**, and if you desaturate by 10%, it is **44.0137, 64.8571, 21.7804**.

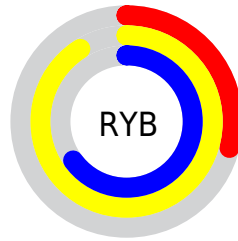
# Distribution



Red (55%)

Green (91%)

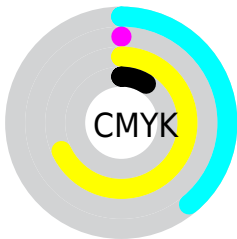
Blue (29%)



Red (29%)

Yellow (91%)

Blue (65%)

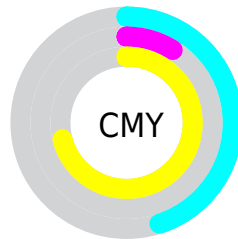


Cyan (39%)

Magenta (0%)

Yellow (68%)

Black (9%)



Cyan (45%)

Magenta (9%)


Yellow (71%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.6611, 63.2353, 16.7192 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 40.6611, 63.2353, 16.7192 by changing the saturation by 10% instead.





 40.6611, 63.2353,  
16.7192


 40.6611, 63.2353,  
16.7192


339.9890,  
436.4229, 245.5379

 28.2409, 46.0316,  
9.8747


 75.4471, 109.5089,  
38.6264

 18.6487, 32.2708,  
5.2114


 98.5436, 139.3476,  
54.5261


 11.5192, 21.5684,  
2.3109


 125.9296,  
174.1667, 74.2812

 6.4871, 13.5401,  
0.7373

 157.9704,  
214.3507, 98.3104

 3.1869, 7.8015,  
0.0000

 195.0314,  
260.2839, 127.0321

 1.2534, 3.9682,  
0.0000

237.4779,

 0.1479, 1.6558,

312.3508, 160.8649

0.0000

285.6754,  
370.9356, 200.2273

■ 0.0000, 0.3948,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 40.6611, 63.2353,  
16.7192

■ 40.6611, 63.2353,  
16.7192

■ 37.8765, 61.8771,  
13.1848

■ 44.0137, 64.8571,  
21.7804

■ 35.6128, 60.7561,  
10.9999


■ 47.9673, 66.7503,  
28.5115


■ 33.8167, 59.8520,  
9.9341


■ 52.5570, 68.9323,  
37.0439


■ 33.4268, 59.6546,  
9.7527


■ 57.8135, 71.4163,  
47.4945

 63.7656, 74.2147,  
59.9707

 70.4399, 77.3392,  
74.5717

 77.8617, 80.8007,  
91.3902

 85.2708, 84.2960,  
106.3842

 87.8673, 85.6346,  
106.5058

# Harmonies

## Analogous

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



54.7616, 63.2353, 9.7707



40.6611, 63.2353, 16.7192



33.0182, 63.2353, 38.9348

# Triad

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



40.6611, 63.2353, 16.7192



48.4655, 63.2353, 210.9908



101.6315, 63.2353, 54.2515

# Complementary

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



40.6611, 63.2353, 16.7192



32.6691, 18.9108, 77.5332

# 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.



99.0023, 63.2353, 111.1431



40.6611, 63.2353, 16.7192



65.7814, 63.2353, 222.4837

# Square

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



40.6611, 63.2353, 16.7192



36.8524, 63.2353, 153.1410



84.9249, 63.2353, 179.4287



91.5167, 63.2353, 23.0799



# Rectangle

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



40.6611, 63.2353, 16.7192



31.4987, 63.2353, 67.2411



84.9249, 63.2353, 179.4287



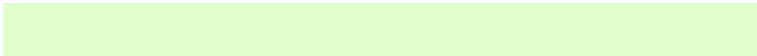
102.2463, 63.2353, 70.4894

# Sweetspot

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



40.6626, 63.2380, 16.7206



77.7878, 91.9271, 70.7706



47.8639, 44.7721, 12.7767



16.1939, 19.4619, 14.1878



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.



40.6626, 63.2380, 16.7206



46.2151, 76.8471, 15.2424



33.2410, 59.3553, 18.9384



14.7554, 16.3810, 15.2886



18.8726, 33.5107, 5.4735



1.4984, 2.5298, 0.4093



# Inverse Universe

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



32.6691, 18.9108, 77.5332



35.4758, 17.7998, 96.1737



48.1285, 27.0848, 69.0243



14.3844, 14.3004, 18.1464



13.8104, 6.1854, 42.8492

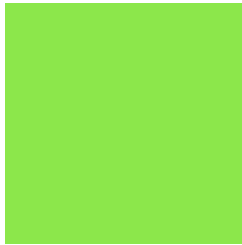


1.1257, 0.5113, 3.1713



# Previews

## White Background



This preview shows how the XYZ color 40.6611, 63.2353, 16.7192 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 40.6611, 63.2353, 16.7192 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

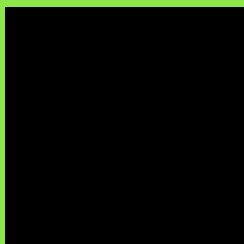
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 40.6611, 63.2353, 16.7192**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.6611, 63.2353, 16.7192.



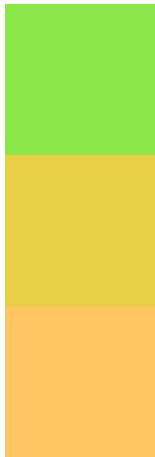
This preview shows how white text looks on a background with the XYZ color 40.6611, 63.2353,



# 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

40.6611, 63.2353, 16.7192

### Protanopia

56.6657, 62.2111, 14.6516

### Deuteranopia

63.3639, 62.0556, 19.9475



## Tritanopia

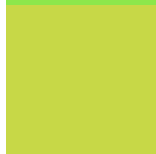
54.5737, 62.8874, 86.3529

# Trichromacy



## Original Color

40.6611, 63.2353, 16.7192



## Protanomaly

49.2464, 61.7088, 15.2767



## Deuteranomaly

52.0442, 60.4683, 18.3797



## Tritanomaly

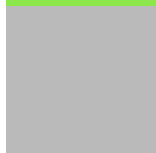
47.2105, 61.8161, 50.5177

# Monochromacy



## Original Color

40.6611, 63.2353, 16.7192



## Achromatopsia

46.6715, 49.1021, 53.4722



## Achromatomaly

42.6710, 52.7514, 35.1272

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.6611, 63.2353, 16.7192 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(140, 231, 75)` looks like.

```
.text, #text, p{  
    color:rgb(140, 231, 75)  
}
```

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(140, 231, 75) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(140, 231, 75) }
```

## Border

The CSS property to change the border of an element to XYZ 40.6611, 63.2353, 16.7192 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(140, 231, 75) }
```



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

```
.border{ border-color:rgb(140, 231, 75) }
```

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

Here you see how a box with a 4 pixel `rgb(140, 231, 75)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(140, 231, 75); -webkit-box-  
shadow:4px 4px 4px 4px rgb(140, 231, 75);  
box-shadow:4px 4px 4px 4px rgb(140, 231,  
75) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.6611, 63.2353, 16.7192 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(140, 231, 75) }
```

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

```
.background{ background-color: rgb(140,  
231, 75) }
```

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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