

# Converting Colors

XYZ(40.4944, 60.3955, 29.9453)

Have a look what the booklet for  
XYZ(40.4944, 60.3955, 29.9453)  
contains.

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# Color

**XYZ(40.4944, 60.3955,  
29.9453)**

# Conversions

## Conversions Part 1

Format	Color
Hex	85E180
RGB	133, 225, 128
RGB Percent	52%, 88%, 50%
CMY	0.4784, 0.1176, 0.4980
CMYK	0.41, 0.00, 0.43, 0.12
HSL	117°, 62%, 69%
HSV	117°, 43%, 88%
XYZ	40.4944, 60.3955, 29.9453
YIQ	186.4340, -23.6950, -49.6710

# Conversions

## Conversions Part 2

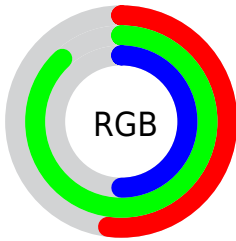
Format	Color
<a href="#">RYB</a>	<a href="#">128, 225, 220</a>
Decimal	<a href="#">8774016</a>
CIELab	<a href="#">82.05, -46.41, 38.99</a>
CIELCh	<a href="#">82, 60.616, 139.963</a>
Yxy	<a href="#">60.3955, 0.3095, 0.4616</a>
Android (android.graphics.Color)	<a href="#">4286964096 (0xFF85E180)</a>
YUV	<a href="#">186.4340, -28.8080, -46.8616</a>
Hunter-Lab	<a href="#">77.7145, -42.9902, 31.5543</a>

# Details

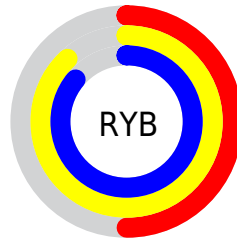
The XYZ color **40.4944, 60.3955, 29.9453** is a light color, and the websafe version is hex **66CC66**. A complement of this color would be **50.8278, 36.0921, 75.5249**, and the grayscale version is **47.0832, 49.5352, 53.9438**.

A 20% lighter version of the original color is **65.4387, 85.8445, 57.3766**, and **18.5881, 30.4895, 11.9266** is the 20% darker color. If you saturate the color by 10%, you get **36.1410, 58.3056, 22.8496**, and if you desaturate by 10%, it is **45.8637, 62.9747, 38.8051**.

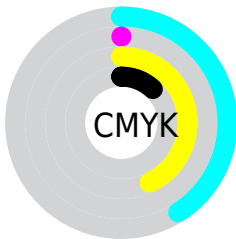
# Distribution



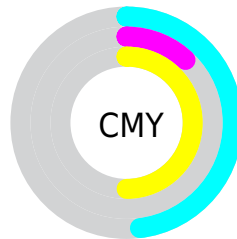
- Red (52%)
- Green (88%)
- Blue (50%)



- Red (50%)
- Yellow (88%)
- Blue (86%)



- Cyan (41%)
- Magenta (0%)
- Yellow (43%)
- Black (12%)



- Cyan (48%)
- Magenta (12%)
- Yellow (50%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.4944, 60.3955, 29.9453 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 40.4944, 60.3955, 29.9453 by changing the saturation by 10% instead.



40.4944, 60.3955,  
29.9453

40.4944, 60.3955,  
29.9453

339.3018,  
426.0540, 315.8488

28.1102, 43.7375,  
19.5454

75.1953, 105.4032,  
60.6356

18.5496, 30.4642,  
11.8842

98.2428, 134.5216,  
81.7631

11.4474, 20.1912,  
6.5433

125.5753,  
168.5624, 107.3036

6.4381, 12.5341,  
3.1041

157.5582,  
207.9098, 137.6755

3.1564, 7.1085,  
1.1480

194.5570,  
252.9483, 173.2974

1.2370, 3.5301,  
0.0000

236.9370,

0.1353, 1.4143,

304.0622, 214.5879

0.0000

285.0635,  
361.6360, 261.9655

■ 0.0000, 0.2272,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 40.4944, 60.3955,  
29.9453

■ 40.4944, 60.3955,  
29.9453

■ 36.1410, 58.3056,  
22.8496

■ 45.8637, 62.9747,  
38.8051

■ 32.7354, 56.6671,  
17.3965


■ 52.3025, 66.0633,  
49.5318


■ 30.2080, 55.4488,  
13.4554


■ 59.8661, 69.6894,  
62.2252


■ 28.4782, 54.6124,  
10.8741

■ 68.6047, 73.8768,  
76.9765

 27.4499, 54.1123,  
9.4688

 78.5652, 78.6480,  
93.8717

 27.0724, 53.9281,  
8.9823

 86.2164, 82.3328,  
105.9555

# Harmonies

## Analogous

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



49.3779, 60.3955, 19.1638



40.4944, 60.3955, 29.9453



36.3562, 60.3955, 54.1860

# Triad

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



40.4944, 60.3955, 29.9453



53.2060, 60.3955, 162.9007



83.8893, 60.3955, 44.4463

# Complementary

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



40.4944, 60.3955, 29.9453



50.8278, 36.0921, 75.5249

# 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.



85.3216, 60.3955, 78.8758



40.4944, 60.3955, 29.9453



66.2561, 60.3955, 157.1703

# Square

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



40.4944, 60.3955, 29.9453



42.9363, 60.3955, 136.1454



78.4668, 60.3955, 122.5669



74.8037, 60.3955, 25.1098



# Rectangle

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



40.4944, 60.3955, 29.9453



36.3520, 60.3955, 78.7729



78.4668, 60.3955, 122.5669



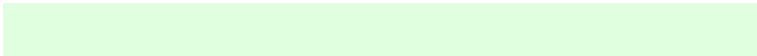
85.3289, 60.3955, 54.2662

# Sweetspot

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



40.4959, 60.3980, 29.9466



79.5284, 92.5627, 82.6767



60.1602, 67.9890, 30.3754



16.5160, 19.5695, 16.8443



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.



40.4959, 60.3980, 29.9466



48.3863, 77.6204, 30.9746



43.0881, 61.3459, 47.6184



13.5938, 15.3708, 14.5572



15.6290, 31.0896, 5.1772



1.1067, 2.1670, 0.3599



# Inverse Universe

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



50.8278, 36.0921, 75.5249



63.8295, 41.2246, 99.2007



47.3164, 34.8650, 49.0193



14.2216, 13.8978, 17.3207



23.7433, 11.3354, 41.9849



1.6675, 0.7969, 2.9112



# Previews

## White Background



This preview shows how the XYZ color 40.4944, 60.3955, 29.9453 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 40.4944, 60.3955, 29.9453 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 40.4944, 60.3955, 29.9453**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.4944, 60.3955, 29.9453.



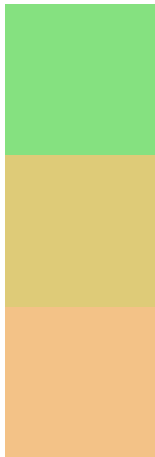
This preview shows how white text looks on a background with the XYZ color 40.4944, 60.3955,



# 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

40.4944, 60.3955, 29.9453

### Protanopia

54.8703, 59.5975, 26.3808

### Deuteranopia

60.6271, 59.3875, 31.1892



## Tritanopia

51.2140, 60.0740, 83.7591

# Trichromacy



## Original Color

40.4944, 60.3955, 29.9453



## Protanomaly

48.1046, 58.9657, 27.5850



## Deuteranomaly

50.6248, 58.0251, 30.3615



## Tritanomaly

46.2926, 59.5870, 59.5136

# Monochromacy



## Original Color

40.4944, 60.3955, 29.9453



## Achromatopsia

46.6715, 49.1021, 53.4722



## Achromatomaly

43.3822, 52.2407, 43.3943

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.4944, 60.3955, 29.9453 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(133, 225, 128)` looks like.

```
.text, #text, p{  
    color:rgb(133, 225, 128)  
}
```

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(133, 225, 128) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(133, 225, 128) }
```

## Border

The CSS property to change the border of an element to XYZ 40.4944, 60.3955, 29.9453 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(133, 225, 128) }
```



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

```
.border{ border-color:rgb(133, 225, 128) }
```

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

Here you see how a box with a 4 pixel rgb(133, 225, 128) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(133, 225, 128); -webkit-box-  
shadow:4px 4px 4px 4px rgb(133, 225, 128);  
box-shadow:4px 4px 4px 4px rgb(133, 225,  
128) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.4944, 60.3955, 29.9453 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(133, 225, 128) }
```

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

```
.background{ background-color: rgb(133,  
225, 128) }
```

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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