

# Converting Colors

XYZ(40.6768, 67.5128, 42.9870)

Have a look what the booklet for  
XYZ(40.6768, 67.5128, 42.9870)  
contains.

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# Color

**XYZ(40.5856, 67.3551,  
42.7600)**

# Conversions

## Conversions Part 1

| Format      | Color                        |
|-------------|------------------------------|
| Hex         | 49F29D                       |
| RGB         | 73, 242, 157                 |
| RGB Percent | 29%, 95%, 62%                |
| CMY         | 0.7137, 0.0510, 0.3843       |
| CMYK        | 0.70, 0.00, 0.35, 0.05       |
| HSL         | 150°, 87%, 62%               |
| HSV         | 150°, 70%, 95%               |
| XYZ         | 40.5856, 67.3551, 42.7600    |
| YIQ         | 181.7790, -73.4390, -62.2630 |

# Conversions

## Conversions Part 2

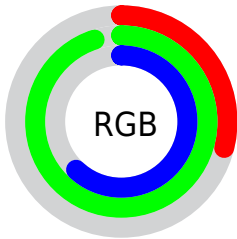
| Format                              | Color  |
|-------------------------------------|--|
| <a href="#">RYB</a>                 | <a href="#">73, 186, 242</a>                     |
| Decimal                             | <a href="#">4846237</a>                          |
| CIELab                              | <a href="#">85.68, -61.77, 28.85</a>             |
| CIELCh                              | <a href="#">86, 68.181, 154.963</a>              |
| Yxy                                 | <a href="#">67.3551, 0.2693,<br/>0.4469</a>      |
| Android<br>(android.graphics.Color) | <a href="#">4283036317<br/>(0xFF49F29D)</a>      |
| YUV                                 | <a href="#">181.7790, -12.2160,<br/>-95.3992</a> |
| Hunter-Lab                          | <a href="#">82.0702, -55.3504,<br/>26.5580</a>   |

# Details

The XYZ color **40.5856, 67.3551, 42.7600** is a light color, and the websafe version is hex **66FF99**. The color can be described as light washed spring green. A complement of this color would be **45.1742, 26.1124, 35.0096**, and the grayscale version is **44.4378, 46.7520, 50.9129**.

A 20% lighter version of the original color is **58.6282, 81.9362, 75.0126**, and **19.8988, 35.7178, 19.2101** is the 20% darker color. If you saturate the color by 10%, you get **38.1083, 66.1940, 37.4877**, and if you desaturate by 10%, it is **43.8828, 68.9305, 48.6141**.

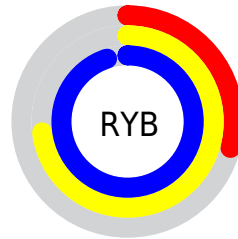
# Distribution



Red (29%)

Green (95%)

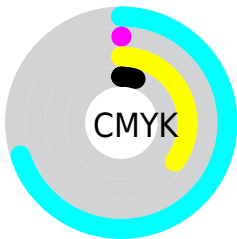
Blue (62%)



Red (29%)

Yellow (73%)

Blue (95%)

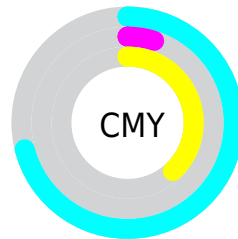


Cyan (70%)

Magenta (0%)

Yellow (35%)

Black (5%)



Cyan (71%)

Magenta (5%)


Yellow (38%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.5856, 67.3551, 42.7600 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 40.5856, 67.3551, 42.7600 by changing the saturation by 10% instead.





 40.5856, 67.3551,  
42.7600


 40.5856, 67.3551,  
42.7600


339.6779,  
451.2077, 373.5160


 28.1817, 49.3733,  
29.3668


 75.3331, 115.4291,  
80.6310


 18.6038, 34.9157,  
19.1105


 98.4074, 146.2900,  
105.9460

 11.4866, 23.5979,  
11.5726


 125.7692,  
182.2128, 136.0720

 6.4649, 15.0356,  
6.3344

 157.7838,  
223.5818, 171.4275

 3.1731, 8.8444,  
2.9774

194.8166,  
270.7813, 212.4311

 1.2459, 4.6398,  
1.0831

237.2330,

 0.1422, 2.0375,

324.1959, 259.5014

0.0000

285.3983,  
384.2099, 313.0568

0.0000, 0.6291,  
0.0000

0.0000, 0.0000,  
0.0000

40.5856, 67.3551,  
42.7600

40.5856, 67.3551,  
42.7600

38.1083, 66.1940,  
37.4877

43.8828, 68.9305,  
48.6141

36.3546, 65.3925,  
32.7727


48.0715, 70.9515,  
55.0641


35.1782, 64.8773,  
28.5929


53.2210, 73.4551,  
62.1291


35.1608, 64.8698,  
28.5277


59.3920, 76.4724,  
69.8260

 66.6400, 80.0317,  
78.1708

 75.0164, 84.1592,  
87.1790

 84.5692, 88.8793,  
96.8654

 90.9435, 91.9468,  
107.0385

 91.0434, 91.9868,  
107.5645

# Harmonies

## Analogous

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



48.3790, 67.3551, 23.1908



40.5856, 67.3551, 42.7600



38.6288, 67.3551, 80.9929

# Triad

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



40.5856, 67.3551, 42.7600



66.6388, 67.3551, 195.8754



91.7577, 67.3551, 34.4211

# Complementary

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



40.5856, 67.3551, 42.7600



45.1742, 26.1124, 35.0096

# 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.



98.6350, 67.3551, 66.1818



40.5856, 67.3551, 42.7600



82.7115, 67.3551, 168.1838

# Square

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



40.5856, 67.3551, 42.7600



52.1893, 67.3551, 181.3885



95.0830, 67.3551, 115.8361



77.5135, 67.3551, 19.9217



# Rectangle

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



40.5856, 67.3551, 42.7600



40.5736, 67.3551, 115.7011



95.0830, 67.3551, 115.8361



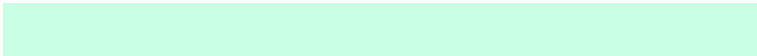
95.1041, 67.3551, 42.8296

# Sweetspot

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



40.5873, 67.3578, 42.7615



73.9813, 89.6051, 86.8431



47.5175, 71.4946, 17.5994



15.3337, 18.9328, 18.0206



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.



40.5873, 67.3578, 42.7615



41.9537, 74.1022, 39.8046



50.1091, 71.1665, 92.9022



15.8935, 17.7874, 18.4621



18.9569, 34.8748, 15.6877



1.6272, 2.9213, 1.5694



# Inverse Universe

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



45.1742, 26.1124, 35.0096



47.4139, 24.9872, 30.5639



40.3005, 24.1629, 9.3446



16.1045, 15.8915, 18.1063



21.6184, 10.9198, 11.1728

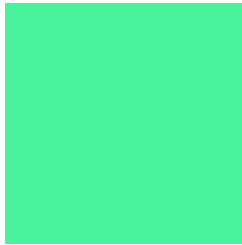


1.8487, 0.9285, 1.1940



# Previews

## White Background



This preview shows how the XYZ color 40.5856, 67.3551, 42.7600 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 40.5856, 67.3551, 42.7600 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

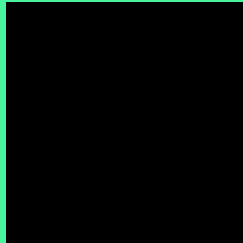
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 40.5856, 67.3551, 42.7600**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.5856, 67.3551, 42.7600.



This preview shows how white text looks on a background with the XYZ color 40.5856, 67.3551,



# 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

40.5856, 67.3551, 42.7600

### Protanopia

61.2107, 65.9236, 35.8839

### Deuteranopia

67.1872, 65.8954, 45.2543



## Tritanopia

51.9815, 67.2426, 99.8619

# Trichromacy



## Original Color

40.5856, 67.3551, 42.7600



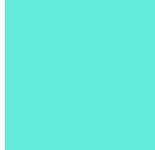
## Protanomaly

49.0461, 63.8295, 38.1691



## Deuteranomaly

51.4494, 62.9775, 44.0945



## Tritanomaly

46.9269, 66.8613, 75.3980

# Monochromacy



## Original Color

40.5856, 67.3551, 42.7600



## Achromatopsia

44.4628, 46.7784, 50.9417



## Achromatomaly

40.2910, 51.9536, 47.4397

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.5856, 67.3551, 42.7600 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(73, 242, 157)` looks like.

```
.text, #text, p{  
    color:rgb(73, 242, 157)  
}
```

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(73, 242, 157) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(73, 242, 157) }
```

## Border

The CSS property to change the border of an element to XYZ 40.5856, 67.3551, 42.7600 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(73, 242, 157) }
```



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

```
.border{ border-color:rgb(73, 242, 157) }
```

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

Here you see how a box with a 4 pixel `rgb(73, 242, 157)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(73, 242, 157); -webkit-box-  
shadow:4px 4px 4px 4px rgb(73, 242, 157);  
box-shadow:4px 4px 4px 4px rgb(73, 242,  
157) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.5856, 67.3551, 42.7600 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(73, 242, 157) }
```

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

```
.background{ background-color: rgb(73, 242,  
157) }
```

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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