

# Converting Colors

XYZ(42.8736, 64.2773, 67.2738)

Have a look what the booklet for  
XYZ(42.8736, 64.2773, 67.2738)  
contains.

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# Color

**XYZ(42.7857, 64.0539,  
67.2353)**

# Conversions

## Conversions Part 1

Format	Color
Hex	49E9CC
RGB	73, 233, 204
RGB Percent	29%, 91%, 80%
CMY	0.7137, 0.0863, 0.2000
CMYK	0.69, 0.00, 0.12, 0.09
HSL	169°, 78%, 60%
HSV	169°, 69%, 91%
XYZ	42.7857, 64.0539, 67.2353
YIQ	181.8540, -86.0510, -42.9390

# Conversions

## Conversions Part 2

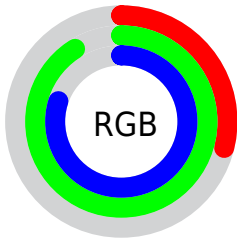
Format	Color
<a href="#">RYB</a>	<a href="#">73, 161, 233</a>
Decimal	<a href="#">4843980</a>
CIELab	<a href="#">83.99, -47.81, 2.09</a>
CIELCh	<a href="#">84, 47.855, 177.494</a>
Yxy	<a href="#">64.0539, 0.2458, 0.3680</a>
Android (android.graphics.Color)	<a href="#">4283034060 (0xFF49E9CC)</a>
YUV	<a href="#">181.8540, 10.9180, -95.4650</a>
Hunter-Lab	<a href="#">80.0337, -44.6335, 6.2148</a>

# Details

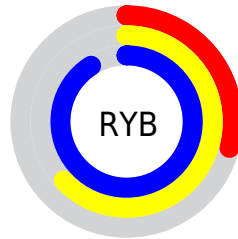
The XYZ color **42.7857, 64.0539, 67.2353** is a light color, and the websafe version is hex **66FFCC**. The color can be described as light muted cyan. A complement of this color would be **38.3873, 23.0500, 14.9989**, and the grayscale version is **44.3621, 46.6724, 50.8263**.

A 20% lighter version of the original color is **64.6252, 84.3154, 107.4761**, and **21.0304, 33.2527, 34.1642** is the 20% darker color. If you saturate the color by 10%, you get **40.8404, 63.1103, 64.5367**, and if you desaturate by 10%, it is **45.4093, 65.3486, 70.0402**.

# Distribution



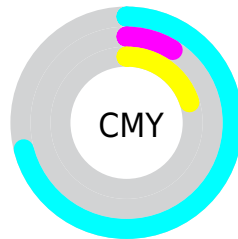
- Red (29%)
- Green (91%)
- Blue (80%)



- Red (29%)
- Yellow (63%)
- Blue (91%)



- Cyan (69%)
- Magenta (0%)
- Yellow (12%)
- Black (9%)




- Cyan (71%)
- Magenta (9%)
- Yellow (20%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.7857, 64.0539, 67.2353 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 42.7857, 64.0539, 67.2353 by changing the saturation by 10% instead.





 42.7857, 64.0539,  
67.2353


 42.7857, 64.0539,  
67.2353


348.6662,  
439.3843, 469.3061


 29.9108, 46.6943,  
48.8131


 78.6451, 110.6886,  
116.9014


 19.9186, 32.7941,  
34.1067


 102.3603,  
140.7324, 148.9823

 12.4438, 21.9687,  
22.6975


 130.4197,  
175.7732, 186.4532

 7.1210, 13.8339,  
14.1671

 163.1886,  
216.1953, 229.7326

 3.5849, 8.0053,  
8.0969

201.0323,  
262.3830, 279.2390

 1.4701, 4.0983,  
4.0684

244.3162,

 0.3054, 1.7287,

314.7208, 335.3911

1.6629

293.4057,  
373.5931, 398.6073

■ 0.0000, 0.4421,  
0.3351

■ 0.0000, 0.0000,  
0.0000

■ 42.7857, 64.0539,  
67.2353

■ 42.7857, 64.0539,  
67.2353

■ 40.8404, 63.1103,  
64.5367

■ 45.4093, 65.3486,  
70.0402

■ 39.4896, 62.4701,  
61.9357


■ 48.7720, 67.0212,  
72.9505


■ 38.6193, 62.0761,  
59.4278


■ 52.9338, 69.1042,  
75.9711

■ 38.5183, 62.0312,  
59.0994


■ 57.9472, 71.6245,  
79.1048

 63.8600, 74.6068,  
82.3546

 70.7165, 78.0740,  
85.7229

 78.5580, 82.0474,  
89.2123

 85.7818, 85.7006,  
92.7483

 86.4091, 85.9515,  
96.0515

# Harmonies

## Analogous

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



45.3305, 64.0539, 42.9575



42.7857, 64.0539, 67.2353



44.6060, 64.0539, 100.1388

# Triad

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



42.7857, 64.0539, 67.2353



70.7315, 64.0539, 134.9891



72.4422, 64.0539, 31.3353

# Complementary

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



42.7857, 64.0539, 67.2353



38.3873, 23.0500, 14.9989

# 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.



80.7001, 64.0539, 46.2206



42.7857, 64.0539, 67.2353



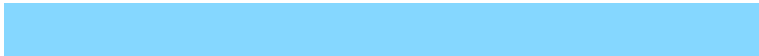
79.6349, 64.0539, 105.8412

# Square

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



42.7857, 64.0539, 67.2353



59.9990, 64.0539, 145.3443



83.4716, 64.0539, 72.3139



61.7722, 64.0539, 26.3242



# Rectangle

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



42.7857, 64.0539, 67.2353



48.1816, 64.0539, 121.9188



83.4716, 64.0539, 72.3139



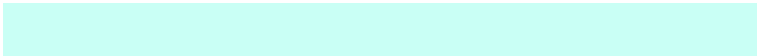
75.6369, 64.0539, 35.0919

# Sweetspot

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



42.7875, 64.0564, 67.2368



76.4948, 90.6105, 100.0789



35.8610, 61.6058, 16.3058



15.9343, 19.1730, 21.1831



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.



42.7875, 64.0564, 67.2368



49.4192, 77.1133, 77.9915



34.2542, 40.8949, 83.1816



15.3937, 17.0723, 18.7561



21.8977, 35.2135, 33.7559



1.7500, 2.7773, 2.8113



# Inverse Universe

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



38.3873, 23.0500, 14.9989



43.8056, 23.8432, 10.6405



41.9751, 32.1390, 10.2959



15.1770, 15.0986, 16.2172



19.3398, 9.9386, 2.3246

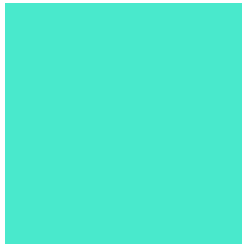


1.5505, 0.7931, 0.3501



# Previews

## White Background



This preview shows how the XYZ color 42.7857, 64.0539, 67.2353 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

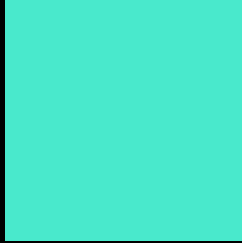
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 42.7857, 64.0539, 67.2353 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

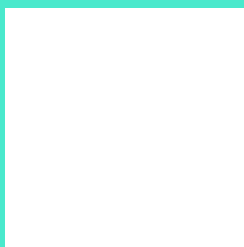
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 42.7857, 64.0539, 67.2353**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.7857, 64.0539, 67.2353.



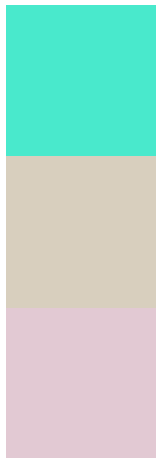
This preview shows how white text looks on a background with the XYZ color 42.7857, 64.0539,



# 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

42.7857, 64.0539, 67.2353

### Protanopia

59.9260, 62.9423, 57.7058

### Deuteranopia

64.0085, 62.6452, 70.3461



## Tritanopia

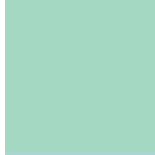
48.4647, 63.8579, 96.1576

# Trichromacy



## Original Color

42.7857, 64.0539, 67.2353



## Protanomaly

49.7160, 60.9444, 60.7729



## Deuteranomaly

51.7570, 60.6886, 68.6607



## Tritanomaly

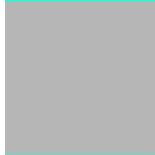
46.1400, 63.7302, 84.7322

# Monochromacy



## Original Color

42.7857, 64.0539, 67.2353



## Achromatopsia

44.4628, 46.7784, 50.9417



## Achromatomaly

41.3362, 51.2418, 56.4272

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.7857, 64.0539, 67.2353 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, 233, 204)` looks like.

```
.text, #text, p{  
    color:rgb(73, 233, 204)  
}
```

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, 233, 204) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(73, 233, 204) }
```

## Border

The CSS property to change the border of an element to XYZ 42.7857, 64.0539, 67.2353 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, 233, 204) }
```



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

```
.border{ border-color:rgb(73, 233, 204) }
```

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

Here you see how a box with a 4 pixel `rgb(73, 233, 204)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(73, 233, 204); -webkit-box-  
shadow:4px 4px 4px 4px rgb(73, 233, 204);  
box-shadow:4px 4px 4px 4px rgb(73, 233,  
204) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.7857, 64.0539, 67.2353 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(73, 233, 204) }
```

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

```
.background{ background-color: rgb(73, 233,  
204) }
```

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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