

# Converting Colors

XYZ(42.3225, 56.9062, 66.8723)

Have a look what the booklet for  
XYZ(42.3225, 56.9062, 66.8723)  
contains.

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# Color

**XYZ(42.3785, 57.0127,  
67.1635)**

# Conversions

## Conversions Part 1

Format	Color
Hex	70D8CE
RGB	112, 216, 206
RGB Percent	44%, 85%, 81%
CMY	0.5608, 0.1529, 0.1922
CMYK	0.48, 0.00, 0.05, 0.15
HSL	174°, 57%, 64%
HSV	174°, 48%, 85%
XYZ	42.3785, 57.0127, 67.1635
YIQ	183.7640, -58.7740, -25.1580

# Conversions

## Conversions Part 2

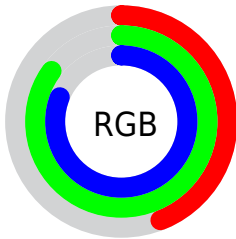
Format	Color
R <sub>YB</sub>	112, 167, 216
Decimal	7395534
CIE Lab	80.19, -32.62, -4.41
CIE LCh	80, 32.916, 187.701
Yxy	57.0127, 0.2544, 0.3423
Android (android.graphics.Color)	4285585614 (0xFF70D8CE)
YUV	183.7640, 10.9623, -62.9370
Hunter-Lab	75.5068, -31.9529, 0.1161

# Details

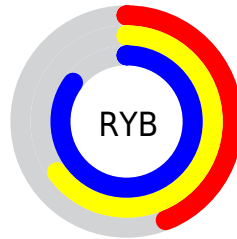
The XYZ color **42.3785, 57.0127, 67.1635** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **37.6278, 27.5940, 21.7573**, and the grayscale version is **45.3958, 47.7600, 52.0106**.

A 20% lighter version of the original color is **70.3876, 87.2860, 107.7458**, and **19.7278, 28.4348, 34.1545** is the 20% darker color. If you saturate the color by 10%, you get **39.7026, 55.6636, 65.7307**, and if you desaturate by 10%, it is **45.7202, 58.7075, 68.6474**.

# Distribution



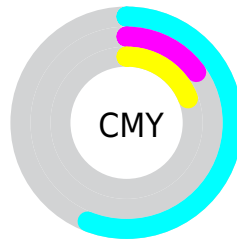
- Red (44%)
- Green (85%)
- Blue (81%)



- Red (44%)
- Yellow (65%)
- Blue (85%)



- Cyan (48%)
- Magenta (0%)
- Yellow (5%)
- Black (15%)



- Cyan (56%)
- Magenta (15%)
- Yellow (19%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.3785, 57.0127, 67.1635 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 42.3785, 57.0127, 67.1635 by changing the saturation by 10% instead.



42.3785, 57.0127,  
67.1635

42.3785, 57.0127,  
67.1635

347.0146,  
413.4969, 469.0439

29.5902, 41.0154,  
48.7551

78.0337, 100.4837,  
116.7975

19.6743, 28.3311,  
34.0610

101.6313,  
128.7263, 148.8602

12.2654, 18.5754,  
22.6627

129.5628,  
161.8194, 186.3114

6.9982, 11.3639,  
14.1417

162.1934,  
200.1474, 229.5697

3.5073, 6.3122,  
8.0794

199.8885,  
244.0948, 279.0535

1.4273, 3.0358,  
4.0573

243.0135,

0.2756, 1.1505,

294.0459, 335.1814

1.6568

291.9337,  
350.3851, 398.3720

■ 0.0000, 0.0207,  
0.3309

■ 0.0000, 0.0000,  
0.0000

■ 42.3785, 57.0127,  
67.1635

■ 42.3785, 57.0127,  
67.1635

■ 39.7026, 55.6636,  
65.7307

■ 45.7202, 58.7075,  
68.6474

■ 37.6396, 54.6287,  
64.3426


■ 49.7660, 60.7634,  
70.1805


■ 36.1369, 53.8821,  
62.9980


■ 54.5571, 63.2031,  
71.7660


■ 35.1303, 53.3911,  
61.6939


■ 60.1299, 66.0455,  
73.4058


 34.5269, 53.1074,  
60.4258


 66.5187, 69.3082,  
75.1014

 34.4331, 53.0642,  
60.1936

 73.7557, 73.0076,  
76.8544

 78.7872, 75.5698,  
78.5220

 79.0650, 75.6809,  
79.9850

 79.3463, 75.7934,  
81.4661

# Harmonies

## Analogous

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



43.1031, 57.0127, 49.0815



42.3785, 57.0127, 67.1635



44.6050, 57.0127, 87.5370

# Triad

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



42.3785, 57.0127, 67.1635



62.4713, 57.0127, 96.1565



59.2351, 57.0127, 33.7735

# Complementary

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



42.3785, 57.0127, 67.1635



37.6278, 27.5940, 21.7573

# 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.



65.0557, 57.0127, 42.1049



42.3785, 57.0127, 67.1635



67.0290, 57.0127, 77.1853

# Square

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



42.3785, 57.0127, 67.1635



55.9369, 57.0127, 106.3848



68.0118, 57.0127, 57.2543



52.4776, 57.0127, 32.1793



# Rectangle

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



42.3785, 57.0127, 67.1635



47.5808, 57.0127, 98.8568



68.0118, 57.0127, 57.2543



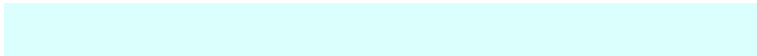
61.3820, 57.0127, 35.7814

# Sweetspot

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



42.3802, 57.0149, 67.1648



82.5658, 93.6275, 105.4560



35.5650, 54.4507, 23.9659



17.3055, 19.8530, 22.4614



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.



42.3802, 57.0149, 67.1648



57.6791, 80.9895, 95.6361



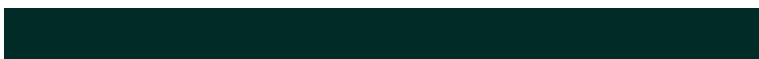
34.2919, 38.8314, 70.6561



12.7383, 14.0863, 15.7023



20.4023, 31.4163, 35.7436



1.2459, 1.9010, 2.2365



# Inverse Universe

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



37.6278, 27.5940, 21.7573



49.9792, 33.1847, 21.9647



42.7352, 38.7501, 20.5575



12.4713, 12.4400, 13.1561



16.8587, 8.6798, 1.2941

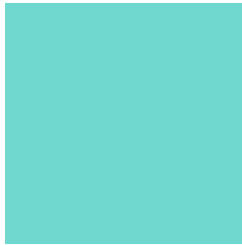


1.0338, 0.5303, 0.1676



# Previews

## White Background



This preview shows how the XYZ color 42.3785, 57.0127, 67.1635 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

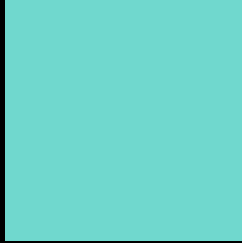
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 42.3785, 57.0127, 67.1635 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

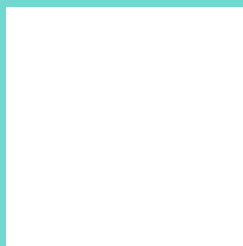
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 42.3785, 57.0127, 67.1635**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.3785, 57.0127, 67.1635.



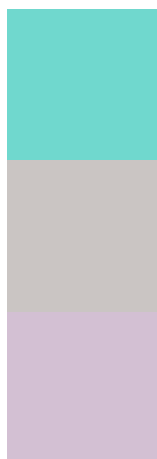
This preview shows how white text looks on a background with the XYZ color 42.3785, 57.0127,



# 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

42.3785, 57.0127, 67.1635

### Protanopia

54.1737, 56.4292, 59.6664

### Deuteranopia

57.4715, 56.2513, 69.4565



## Tritanopia

45.4342, 56.7221, 83.4167

# Trichromacy



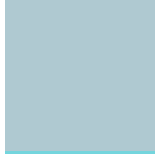
## Original Color

42.3785, 57.0127, 67.1635



## Protanomaly

48.2639, 55.7443, 62.2488



## Deuteranomaly

50.0745, 55.4907, 68.3932



## Tritanomaly

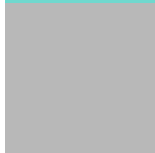
44.0479, 56.5220, 76.9949

# Monochromacy



## Original Color

42.3785, 57.0127, 67.1635



## Achromatopsia

45.5594, 47.9320, 52.1980



## Achromatomaly

43.3549, 50.5547, 57.3422

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.3785, 57.0127, 67.1635 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(112, 216, 206)` looks like.

```
.text, #text, p{  
    color:rgb(112, 216, 206)  
}
```

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(112, 216, 206) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(112, 216, 206) }
```

## Border

The CSS property to change the border of an element to XYZ 42.3785, 57.0127, 67.1635 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(112, 216, 206) }
```



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

```
.border{ border-color:rgb(112, 216, 206) }
```

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

Here you see how a box with a 4 pixel rgb(112, 216, 206) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(112, 216, 206); -webkit-box-  
shadow:4px 4px 4px 4px rgb(112, 216, 206);  
box-shadow:4px 4px 4px 4px rgb(112, 216,  
206) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.3785, 57.0127, 67.1635 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(112, 216, 206) }
```

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

```
.background{ background-color: rgb(112,  
216, 206) }
```

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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