

# Converting Colors

XYZ(67.8612, 76.3034, 85.7342)

Have a look what the booklet for  
XYZ(67.8612, 76.3034, 85.7342)  
contains.

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# Color

**XYZ(67.7681, 76.1229,  
85.9843)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CBE8E6
RGB	203, 232, 230
RGB Percent	80%, 91%, 90%
CMY	0.2039, 0.0902, 0.0980
CMYK	0.13, 0.00, 0.01, 0.09
HSL	176°, 39%, 85%
HSV	176°, 13%, 91%
XYZ	67.7681, 76.1229, 85.9843
YIQ	223.1010, -16.6420, -6.7700

# Conversions

## Conversions Part 2

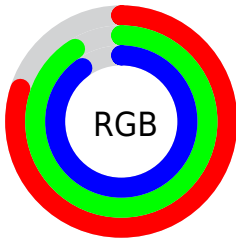
Format	Color
R <sub>Y</sub> B	203, 218, 232
Decimal	13363430
CIE Lab	89.92, -9.85, -2.25
CIE LCh	90, 10.107, 192.854
Yxy	76.1229, 0.2948, 0.3311
Android (android.graphics.Color)	4291553510 (0xFFCBE8E6)
YUV	223.1010, 3.4012, -17.6286
Hunter-Lab	87.2484, -14.0392, 2.6430

# Details

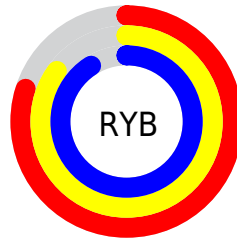
The XYZ color **67.7681, 76.1229, 85.9843** is a light color, and the websafe version is hex **CCFFFF**. A complement of this color would be **65.6568, 64.2774, 66.7073**, and the grayscale version is **70.1978, 73.8536, 80.4266**.

A 20% lighter version of the original color is **95.0500, 100.0000, 108.9000**, and **35.6576, 40.5354, 46.5022** is the 20% darker color. If you saturate the color by 10%, you get **61.6933, 73.0191, 84.5320**, and if you desaturate by 10%, it is **74.7949, 79.7213, 87.4951**.

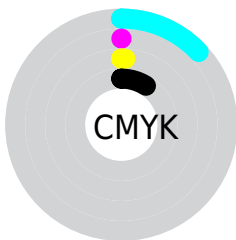
# Distribution



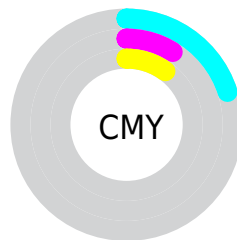
- Red (80%)
- Green (91%)
- Blue (90%)



- Red (80%)
- Yellow (85%)
- Blue (91%)



- Cyan (13%)
- Magenta (0%)
- Yellow (1%)
- Black (9%)



- Cyan (20%)
- Magenta (9%)
- Yellow (10%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 67.7681, 76.1229, 85.9843 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 67.7681, 76.1229, 85.9843 by changing the saturation by 10% instead.



67.7681, 76.1229,  
85.9843

67.7681, 76.1229,  
85.9843

442.0636,  
481.7683, 535.1087

49.9821, 56.5333,  
64.1002

115.0641,  
127.9006, 143.6339

35.6169, 40.6307,  
46.2851

145.3047,  
160.8575, 180.2365

24.3072, 28.0306,  
32.1206

180.4276,  
199.0390, 222.5823

15.6876, 18.3487,  
21.1880

220.7982,  
242.8294, 271.0899

9.3928, 11.2006,  
13.0689

266.7817,  
292.6131, 326.1778

5.0574, 6.2020,  
7.3447

318.7435,

2.3161, 2.9683,

348.7746, 388.2645

3.5969

377.0490,  
411.6982, 457.7687

■ 0.8029, 1.1152,  
1.4069

■ 0.0000, 0.0000,  
0.1471

■ 67.7681, 76.1229,  
85.9843

■ 67.7681, 76.1229,  
85.9843

■ 61.6933, 73.0191,  
84.5320

■ 74.7949, 79.7213,  
87.4951

■ 56.5219, 70.3789,  
83.1312

■ 82.8063, 83.8249,  
89.0612

■ 52.2113, 68.1821,  
81.7814

■ 85.0659, 84.9632,  
90.3691

■ 48.7125, 66.4035,  
80.4804

■ 85.2983, 85.0562,  
91.5929

45.9717, 65.0156,  
79.2255

85.5328, 85.1500,  
92.8277

43.9288, 63.9871,  
78.0139

85.7694, 85.2446,  
94.0736

42.5142, 63.2823,  
76.8423

86.0081, 85.3401,  
95.3306

41.6443, 62.8581,  
75.7068

86.2489, 85.4364,  
96.5986

41.2500, 62.6728,  
74.8744

86.4918, 85.5336,  
97.8778

# Harmonies

## Analogous

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



67.8573, 76.1229, 78.8936



67.7681, 76.1229, 85.9843



68.8867, 76.1229, 92.6015

# Triad

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



67.7681, 76.1229, 85.9843



75.6702, 76.1229, 93.3884



73.7784, 76.1229, 70.4179

# Complementary

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



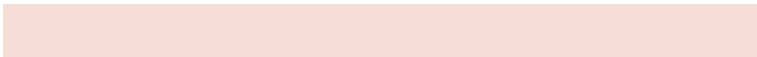
67.7681, 76.1229, 85.9843



65.6568, 64.2774, 66.7073

# 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.



75.9327, 76.1229, 73.8729



67.7681, 76.1229, 85.9843



77.0420, 76.1229, 87.0086

# Square

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



67.7681, 76.1229, 85.9843



73.4268, 76.1229, 97.0388



77.1392, 76.1229, 79.8609



71.2888, 76.1229, 70.1789



# Rectangle

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



67.7681, 76.1229, 85.9843



70.1822, 76.1229, 95.7438



77.1392, 76.1229, 79.8609



74.5672, 76.1229, 71.2322

# Sweetspot

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



67.7703, 76.1261, 85.9860



91.2832, 98.0712, 108.1327



64.9303, 75.0667, 67.5682



19.3915, 20.9161, 23.1142



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.



67.7703, 76.1261, 85.9860



81.9285, 93.2844, 106.0806



64.7676, 69.6679, 86.3813



14.7622, 16.3183, 18.2786



22.9186, 34.7995, 41.6672



1.7066, 2.5768, 3.1475



# Inverse Universe

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



65.6568, 64.2774, 66.7073



78.8264, 75.8921, 77.7829



68.3825, 70.1135, 66.4302



14.4172, 14.3841, 15.1313



18.5434, 9.5516, 1.2248

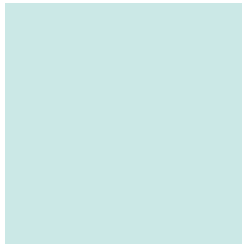


1.3845, 0.7115, 0.1655



# Previews

## White Background



This preview shows how the XYZ color 67.7681, 76.1229, 85.9843 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

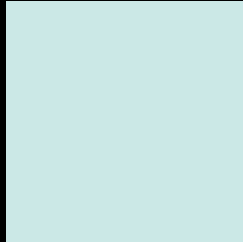
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 67.7681, 76.1229, 85.9843 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

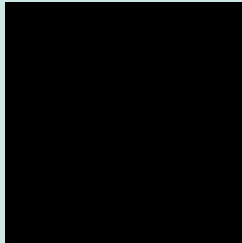
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

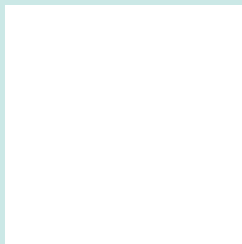
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 67.7681, 76.1229, 85.9843**

## **Background**



This preview shows how black text looks on a background with the XYZ color 67.7681, 76.1229, 85.9843.



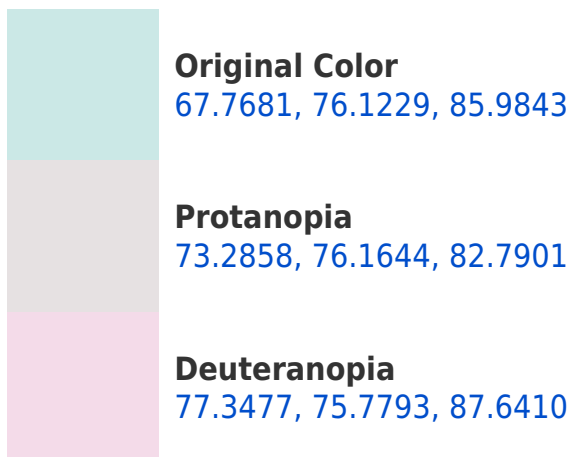
This preview shows how white text looks on a background with the XYZ color 67.7681, 76.1229,



# 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

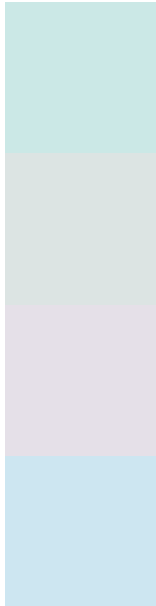




## Tritanopia

70.4162, 75.9377, 99.7531

# Trichromacy



## Original Color

67.7681, 76.1229, 85.9843

## Protanomaly

71.1237, 76.2485, 83.6419

## Deuteranomaly

73.5342, 75.7955, 87.0983

## Tritanomaly

69.3508, 75.9236, 94.2186

# Monochromacy



## Original Color

67.7681, 76.1229, 85.9843

## Achromatopsia

70.1384, 73.7910, 80.3584

## Achromatomaly

69.2427, 74.4826, 82.6786

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 67.7681, 76.1229, 85.9843 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(203, 232, 230)` looks like.

```
.text, #text, p{  
    color:rgb(203, 232, 230)  
}
```

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(203, 232, 230) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(203, 232, 230) }
```

## Border

The CSS property to change the border of an element to XYZ 67.7681, 76.1229, 85.9843 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(203, 232, 230) }
```



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

```
.border{ border-color:rgb(203, 232, 230) }
```

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

Here you see how a box with a 4 pixel `rgb(203, 232, 230)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(203, 232, 230); -webkit-box-  
shadow:4px 4px 4px 4px rgb(203, 232, 230);  
box-shadow:4px 4px 4px 4px rgb(203, 232,  
230) }
```

# Background

The CSS property to change the background color of an element to XYZ 67.7681, 76.1229, 85.9843 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(203, 232, 230) }
```

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

```
.background{ background-color: rgb(203,  
232, 230) }
```

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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