

# Converting Colors

XYZ(63.9689, 68.9344, 84.7853)

Have a look what the booklet for  
XYZ(63.9689, 68.9344, 84.7853)  
contains.

<b>XYZ(63.9716, 68.9328, 84.7966)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(63.9716, 68.9328,  
84.7966)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CADBE6
RGB	202, 219, 230
RGB Percent	79%, 86%, 90%
CMY	0.2078, 0.1412, 0.0980
CMYK	0.12, 0.05, 0.00, 0.10
HSL	204°, 36%, 85%
HSV	204°, 12%, 90%
XYZ	63.9716, 68.9328, 84.7966
YIQ	215.1710, -13.6630, -0.1830

# Conversions

## Conversions Part 2

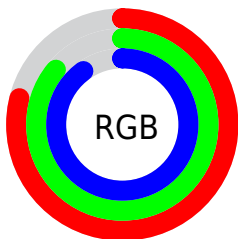
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	202, 213, 230
Decimal	13294566
CIE <sub>Lab</sub>	86.47, -3.50, -7.33
CIE <sub>LCh</sub>	86, 8.128, 244.463
Yxy	68.9328, 0.2939, 0.3166
Android (android.graphics.Color)	4291484646 (0xFFCADBE6)
YUV	215.1710, 7.3107, -11.5510
Hunter-Lab	83.0258, -7.7604, -2.4365

# Details

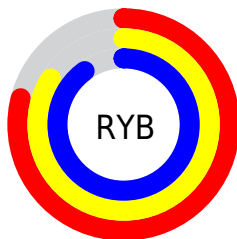
The XYZ color **63.9716, 68.9328, 84.7966** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **67.0885, 68.6755, 65.5982**, and the grayscale version is **64.6675, 68.0352, 74.0904**.

A 20% lighter version of the original color is **95.0500, 100.0000, 108.9000**, and **33.2261, 35.9420, 45.7437** is the 20% darker color. If you saturate the color by 10%, you get **55.9136, 61.3764, 83.7639**, and if you desaturate by 10%, it is **73.0891, 77.2289, 85.9185**.

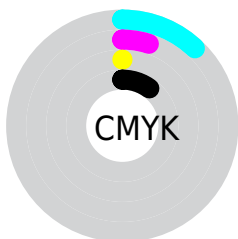
# Distribution



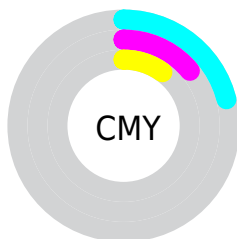
- Red (79%)
- Green (86%)
- Blue (90%)



- Red (79%)
- Yellow (84%)
- Blue (90%)



- Cyan (12%)
- Magenta (5%)
- Yellow (0%)
- Black (10%)



- Cyan (21%)
- Magenta (14%)
- Yellow (10%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 63.9716, 68.9328, 84.7966 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 63.9716, 68.9328, 84.7966 by changing the saturation by 10% instead.



■ 63.9716, 68.9328,  
84.7966

■ 63.9716, 68.9328,  
84.7966

428.6909,  
456.7939, 531.0818

■ 46.8893, 50.6570,  
63.1241

109.6440,  
117.6856, 141.9606

■ 33.1557, 35.9357,  
45.5000

138.9648,  
148.9314, 178.2892

■ 22.4056, 24.3845,  
31.5056

173.0957,  
185.2692, 220.3403

■ 14.2735, 15.6191,  
20.7225

212.4023,  
227.0836, 268.5324

■ 8.3941, 9.2550,  
12.7320

257.2497,  
274.7588, 323.2841

■ 4.4021, 4.9079,  
7.1157

308.0034,

■ 1.9320, 2.1933,

328.6794, 385.0139

3.4550

365.0287,  
389.2296, 454.1402

■ 0.5953, 0.7164,  
1.3314

■ 0.0000, 0.0000,  
0.0873

■ 63.9716, 68.9328,  
84.7966

■ 63.9716, 68.9328,  
84.7966

■ 55.9136, 61.3764,  
83.7639

■ 73.0891, 77.2289,  
85.9185

■ 48.8661, 54.5260,  
82.8130

■ 83.3002, 86.2798,  
87.1273

■ 42.7851, 48.3576,  
81.9429

■ 88.5107, 92.9484,  
88.1398

■ 37.6208, 42.8426,  
81.1506

■ 91.2831, 98.4933,  
89.0640

■ 33.3187, 37.9494,  
80.4329

■ 29.8177, 33.6435,  
79.7863

■ 27.0479, 29.8853,  
79.2069

■ 24.9258, 26.6283,  
78.6900

■ 23.6130, 24.3730,  
78.3239

# Harmonies

## Analogous

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



62.5813, 68.9328, 81.0720



63.9716, 68.9328, 84.7966



65.8004, 68.9328, 85.8647

# Triad

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



63.9716, 68.9328, 84.7966



69.1913, 68.9328, 74.2528



63.4930, 68.9328, 66.8350

# Complementary

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



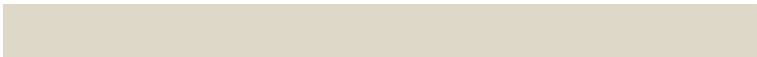
63.9716, 68.9328, 84.7966



67.0885, 68.6755, 65.5982

# 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.



65.2375, 68.9328, 65.1949



63.9716, 68.9328, 84.7966



68.5463, 68.9328, 69.3454

# Square

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



63.9716, 68.9328, 84.7966



68.8368, 68.9328, 79.6110



67.0903, 68.9328, 66.0916



62.3087, 68.9328, 70.6784



# Rectangle

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



63.9716, 68.9328, 84.7966



67.0279, 68.9328, 84.8856



67.0903, 68.9328, 66.0916



64.0321, 68.9328, 66.0163

# Sweetspot

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



63.9736, 68.9357, 84.7981



90.1318, 95.5871, 108.3075



64.6316, 73.9420, 73.6405



19.0993, 20.2856, 23.1588



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

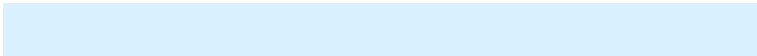


# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



63.9736, 68.9357, 84.7981



77.7445, 84.2404, 106.7702



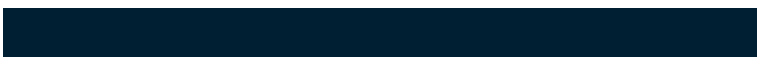
60.5365, 62.0614, 83.6524



14.3075, 15.3363, 18.3505



13.4905, 14.0431, 44.3827



1.0867, 1.2174, 3.3097



# Inverse Universe

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



66.5414, 64.1800, 75.9021



81.7133, 77.0469, 92.9853



70.6911, 75.8809, 66.7991



14.7428, 14.5143, 16.8459



21.2029, 10.6154, 15.2293

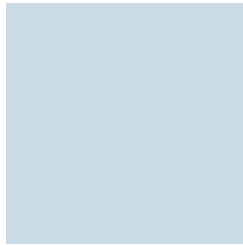


1.6122, 0.8026, 1.3642



# Previews

## White Background



This preview shows how the XYZ color 63.9716, 68.9328, 84.7966 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

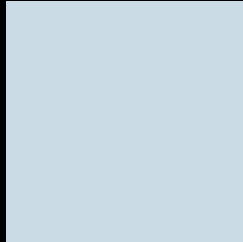
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 63.9716, 68.9328, 84.7966 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

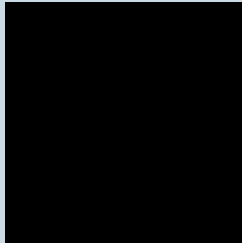
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

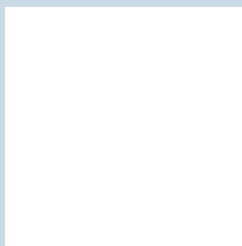
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 63.9716, 68.9328, 84.7966**

## **Background**



This preview shows how black text looks on a background with the XYZ color 63.9716, 68.9328, 84.7966.



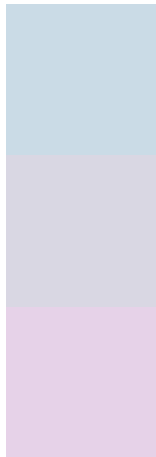
This preview shows how white text looks on a background with the XYZ color 63.9716, 68.9328,



# 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

63.9716, 68.9328, 84.7966

### Protanopia

66.7808, 68.8986, 82.4521

### Deuteranopia

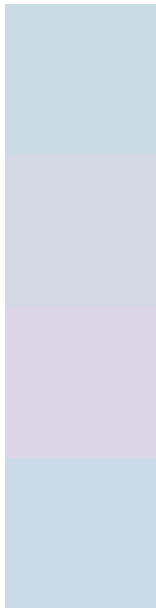
70.2452, 68.7424, 85.9102



## Tritanopia

64.6954, 68.8375, 88.4744

# Trichromacy



## Original Color

63.9716, 68.9328, 84.7966

## Protanomaly

65.7108, 68.7102, 83.1979

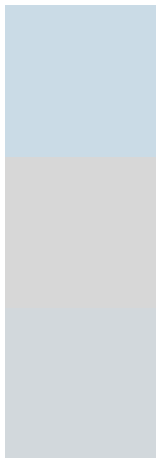
## Deuteranomaly

67.7333, 68.5737, 85.2674

## Tritanomaly

64.4080, 68.7225, 86.9609

# Monochromacy



## Original Color

63.9716, 68.9328, 84.7966

## Achromatopsia

64.5905, 67.9542, 74.0022

## Achromatomaly

64.0525, 67.9807, 77.4558

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 63.9716, 68.9328, 84.7966 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(202, 219, 230) looks like.

```
.text, #text, p{  
    color:rgb(202, 219, 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(202, 219, 230) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(202, 219, 230) }
```

## Border

The CSS property to change the border of an element to XYZ 63.9716, 68.9328, 84.7966 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(202, 219, 230) }
```



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

```
.border{ border-color:rgb(202, 219, 230) }
```

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

Here you see how a box with a 4 pixel `rgb(202, 219, 230)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(202, 219, 230); -webkit-box-  
shadow:4px 4px 4px 4px rgb(202, 219, 230);  
box-shadow:4px 4px 4px 4px rgb(202, 219,  
230) }
```

# Background

The CSS property to change the background color of an element to XYZ 63.9716, 68.9328, 84.7966 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(202, 219, 230) }
```

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

```
.background{ background-color: rgb(202,  
219, 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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor