

# Converting Colors

XYZ(68.7848, 77.5846, 63.4488)

Have a look what the booklet for  
XYZ(68.7848, 77.5846, 63.4488)  
contains.

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# Color

**XYZ(68.9215, 77.6355,  
63.5772)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	DDE9C4
RGB	221, 233, 196
RGB Percent	87%, 91%, 77%
CMY	0.1333, 0.0863, 0.2314
CMYK	0.05, 0.00, 0.16, 0.09
HSL	79°, 46%, 84%
HSV	79°, 16%, 91%
XYZ	68.9215, 77.6355, 63.5772
YIQ	225.1940, 4.7250, -14.0510

# Conversions

## Conversions Part 2

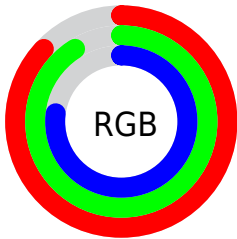
<b>Format</b>	<b>Color</b>
<b>RYB</b>	196, 233, 208
Decimal	14543300
CIELab	90.61, -10.34, 16.65
CIELCh	91, 19.600, 121.833
Yxy	77.6355, 0.3280, 0.3695
Android (android.graphics.Color)	4292733380 (0xFFDDE9C4)
YUV	225.1940, -14.3926, -3.6781
Hunter-Lab	88.1110, -14.5694, 18.8965

# Details

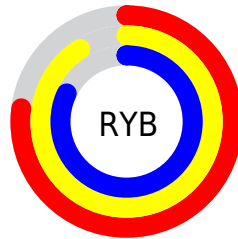
The XYZ color **68.9215, 77.6355, 63.5772** is a light color, and the websafe version is hex **FFFCC**. A complement of this color would be **60.4635, 58.7751, 85.2529**, and the grayscale version is **71.8072, 75.5468, 82.2705**.

A 20% lighter version of the original color is **94.7296, 99.8718, 107.2129**, and **36.3305, 41.5043, 31.6875** is the 20% darker color. If you saturate the color by 10%, you get **64.2233, 75.4988, 50.5717**, and if you desaturate by 10%, it is **74.1394, 79.9971, 78.7603**.

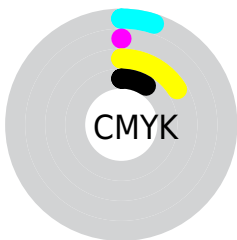
# Distribution



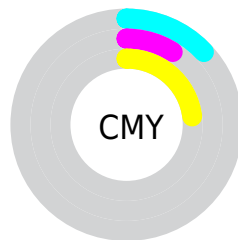
- Red (87%)
- Green (91%)
- Blue (77%)



- Red (77%)
- Yellow (91%)
- Blue (82%)



- Cyan (5%)
- Magenta (0%)
- Yellow (16%)
- Black (9%)



- Cyan (13%)
- Magenta (9%)
- Yellow (23%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 68.9215, 77.6355, 63.5772 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 68.9215, 77.6355, 63.5772 by changing the saturation by 10% instead.



68.9215, 77.6355,  
63.5772

68.9215, 77.6355,  
63.5772

446.0798,  
486.9281, 455.8267

50.9242, 57.7746,  
45.8643

116.7041,  
130.0362, 111.5954

36.3691, 41.6275,  
31.7909

147.2202,  
163.3447, 142.7378

24.8908, 28.8097,  
20.9383

182.6398,  
201.9046, 179.1938

16.1240, 18.9369,  
12.8881

223.3284,  
246.1003, 221.3820

9.7034, 11.6247,  
7.2217

269.6514,  
296.3160, 269.7208

5.2635, 6.4887,  
3.5206

321.9740,

2.4390, 3.1444,

352.9363, 324.6288

1.3662

380.6617,  
416.3455, 386.5246

■ 0.8646, 1.2076,  
0.1152

■ 0.0000, 0.0679,  
0.0000

■ 68.9215, 77.6355,  
63.5772

■ 68.9215, 77.6355,  
63.5772

■ 64.2233, 75.4988,  
50.5717

■ 74.1394, 79.9971,  
78.7603

■ 60.0184, 73.5687,  
39.6387

■ 79.8899, 82.5814,  
96.2092

■ 56.2869, 71.8397,  
30.6724

■ 84.3872, 84.6766,  
106.5043

■ 53.0052, 70.3020,  
23.5553

■ 87.0598, 86.0544,  
106.6294

■ 50.1472, 68.9452,  
18.1575

■ 88.4305, 86.7610,  
106.6935

■ 47.6837, 67.7573,  
14.3322

■ 45.5805, 66.7246,  
11.9082

■ 43.7959, 65.8301,  
10.6738

■ 43.1260, 65.4908,  
10.3680

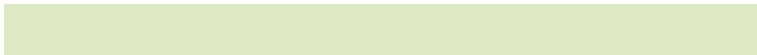
# Harmonies

## Analogous

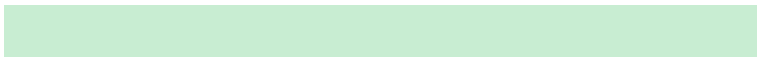
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



73.4886, 77.6355, 60.2836



68.9215, 77.6355, 63.5772



65.7758, 77.6355, 72.3994

# Triad

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



68.9215, 77.6355, 63.5772



69.4225, 77.6355, 110.6806



83.6350, 77.6355, 83.6700

# Complementary

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



68.9215, 77.6355, 63.5772



60.4635, 58.7751, 85.2529

# Split Complementary

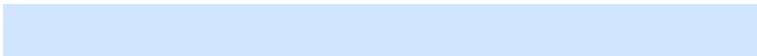
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



82.4306, 77.6355, 97.9492



68.9215, 77.6355, 63.5772



74.0926, 77.6355, 114.5406

# Square

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



68.9215, 77.6355, 63.5772



66.0559, 77.6355, 99.6110



78.8830, 77.6355, 109.6487



82.1059, 77.6355, 71.0569



# Rectangle

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



68.9215, 77.6355, 63.5772



64.8334, 77.6355, 80.7484



78.8830, 77.6355, 109.6487



83.5362, 77.6355, 88.4317

# Sweetspot

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



68.9236, 77.6389, 63.5789



91.5591, 98.4298, 98.3746



66.0577, 66.2854, 61.5385



19.4953, 21.0220, 20.7517



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

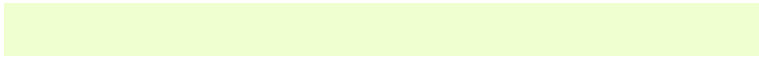


# Same Dimension

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



68.9236, 77.6389, 63.5789



82.6594, 94.4028, 72.6084



63.6749, 74.9331, 63.3332



15.8494, 17.3679, 16.0357



24.6046, 37.2286, 5.8890



2.0321, 2.9749, 0.4671



# Inverse Universe

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



60.4635, 58.7751, 85.2529



70.4604, 67.1999, 103.8650



65.8827, 61.5689, 85.5066



14.6914, 14.7862, 19.0019



10.1337, 4.2600, 44.0311

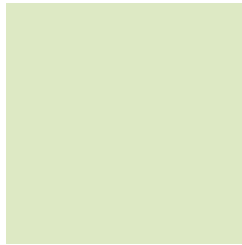


0.8932, 0.3848, 3.4621



# Previews

## White Background



This preview shows how the XYZ color 68.9215, 77.6355, 63.5772 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

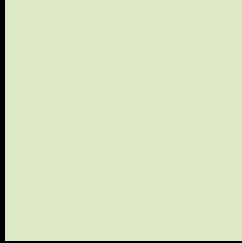
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 68.9215, 77.6355, 63.5772 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

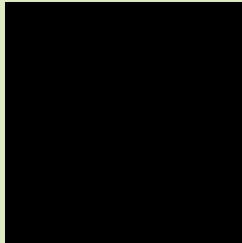
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

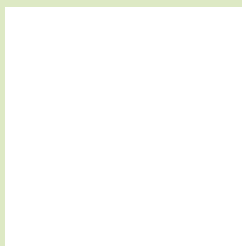
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 68.9215, 77.6355, 63.5772**

## **Background**



This preview shows how black text looks on a background with the XYZ color 68.9215, 77.6355, 63.5772.



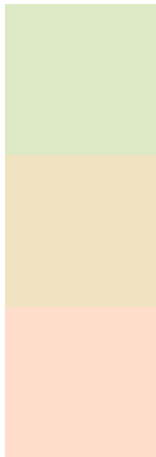
This preview shows how white text looks on a background with the XYZ color 68.9215, 77.6355,



# 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

68.9215, 77.6355, 63.5772

### Protanopia

73.0299, 77.3137, 61.5260

### Deuteranopia

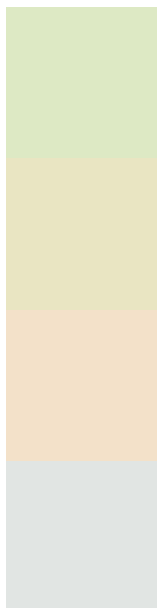
77.9955, 77.3325, 67.9426



## Tritanopia

75.5204, 77.4183, 96.5508

# Trichromacy



## Original Color

68.9215, 77.6355, 63.5772

## Protanomaly

71.3612, 77.2573, 62.1899

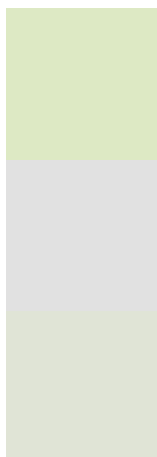
## Deuteranomaly

74.4300, 77.1222, 66.2215

## Tritanomaly

72.9358, 77.5922, 83.8057

# Monochromacy



## Original Color

68.9215, 77.6355, 63.5772

## Achromatopsia

71.5672, 75.2942, 81.9954

## Achromatomaly

70.6215, 76.1891, 74.6022

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 68.9215, 77.6355, 63.5772 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(221, 233, 196)` looks like.

```
.text, #text, p{  
    color:rgb(221, 233, 196)  
}
```

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(221, 233, 196) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(221, 233, 196) }
```

## Border

The CSS property to change the border of an element to XYZ 68.9215, 77.6355, 63.5772 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(221, 233, 196) }
```



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

```
.border{ border-color:rgb(221, 233, 196) }
```

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

Here you see how a box with a 4 pixel `rgb(221, 233, 196)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(221, 233, 196); -webkit-box-shadow:4px 4px 4px 4px rgb(221, 233, 196); box-shadow:4px 4px 4px 4px rgb(221, 233, 196) }
```

# Background

The CSS property to change the background color of an element to XYZ 68.9215, 77.6355, 63.5772 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(221, 233, 196) }
```

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

```
.background{ background-color: rgb(221,  
233, 196) }
```

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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