

# Converting Colors

XYZ(71.2200, 77.2160, 68.2163)

Have a look what the booklet for  
XYZ(71.2200, 77.2160, 68.2163)  
contains.

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# Color

**XYZ(71.2315, 77.0563,  
68.2458)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	E5E5CC
RGB	229, 229, 204
RGB Percent	90%, 90%, 80%
CMY	0.1020, 0.1019, 0.2000
CMYK	0.00, 0.00, 0.11, 0.10
HSL	60°, 32%, 85%
HSV	60°, 11%, 90%
XYZ	71.2315, 77.0563, 68.2458
YIQ	226.1500, 8.0250, -7.7750

# Conversions

## Conversions Part 2

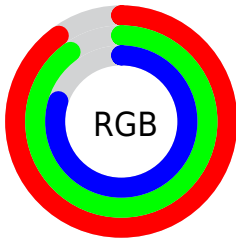
Format	Color
R <sub>Y</sub> B	204, 229, 204
Decimal	15066572
CIE Lab	90.35, -4.23, 12.20
CIE LCh	90, 12.910, 109.119
Yxy	77.0563, 0.3290, 0.3559
Android (android.graphics.Color)	4293256652 (0xFFE5E5CC)
YUV	226.1500, -10.9200, 2.4994
Hunter-Lab	87.7817, -8.7721, 15.3523

# Details

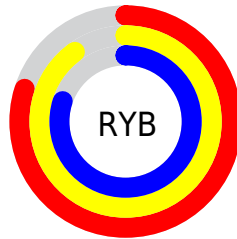
The XYZ color **71.2315, 77.0563, 68.2458** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **60.6406, 61.6823, 82.8427**, and the grayscale version is **72.4715, 76.2456, 83.0315**.

A 20% lighter version of the original color is **95.0500, 100.0000, 108.9000**, and **37.8747, 41.3583, 34.8409** is the 20% darker color. If you saturate the color by 10%, you get **68.6838, 76.0396, 54.8276**, and if you desaturate by 10%, it is **74.1873, 78.2413, 83.7944**.

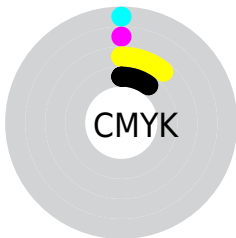
# Distribution



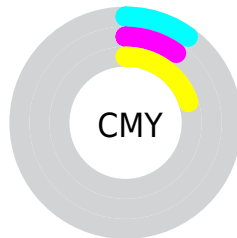
- Red (90%)
- Green (90%)
- Blue (80%)



- Red (80%)
- Yellow (90%)
- Blue (80%)



- Cyan (0%)
- Magenta (0%)
- Yellow (11%)
- Black (10%)



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

# Brightness & Saturation Gradients

These gradients show how the XYZ color 71.2315, 77.0563, 68.2458 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 71.2315, 77.0563, 68.2458 by changing the saturation by 10% instead.



■ 71.2315, 77.0563,  
68.2458

■ 71.2315, 77.0563,  
68.2458

454.0615,  
484.9560, 472.9881

■ 52.8144, 57.2991,  
49.6298

119.9800,  
129.2190, 118.3612

■ 37.8815, 41.2454,  
34.7502

151.0421,  
162.3932, 150.6978

■ 26.0675, 28.5109,  
23.1885

187.0499,  
200.8085, 188.4449

■ 17.0071, 18.7111,  
14.5262

228.3687,  
244.8494, 232.0211

■ 10.3349, 11.4617,  
8.3446

275.3639,  
294.9002, 281.8450

■ 5.6855, 6.3783,  
4.2253

328.4009,

■ 2.6936, 3.0765,

351.3453, 338.3351

1.7497

387.8450,  
414.5691, 401.9100

■ 0.9939, 1.1718,  
0.3945

■ 0.0000, 0.0385,  
0.0000

■ 71.2315, 77.0563,  
68.2458

■ 71.2315, 77.0563,  
68.2458

■ 68.6838, 76.0396,  
54.8276

■ 74.1873, 78.2413,  
83.7944

■ 66.5203, 75.1741,  
43.4424

■ 77.5615, 79.5912,  
101.5552

■ 64.7244, 74.4555,  
33.9926

■ 78.3885, 79.9221,  
105.9027

■ 63.2756, 73.8758,  
26.3706

■ 78.3899, 79.9228,  
105.9028

62.1515, 73.4260,  
20.4583

78.3913, 79.9236,  
105.9029

61.3270, 73.0961,  
16.1239

78.3927, 79.9243,  
105.9029

60.7734, 72.8745,  
13.2163

78.3941, 79.9250,  
105.9030

60.4566, 72.7476,  
11.5549

78.3955, 79.9257,  
105.9031

60.3218, 72.6935,  
10.8520

78.3969, 79.9265,  
105.9031

# Harmonies

## Analogous

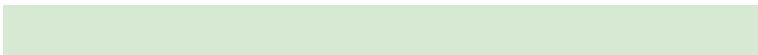
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



74.4140, 77.0563, 67.6732



71.2315, 77.0563, 68.2458



68.6600, 77.0563, 72.8286

# Triad

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



71.2315, 77.0563, 68.2458



69.2639, 77.0563, 98.0265



79.4862, 77.0563, 87.2912

# Complementary

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



71.2315, 77.0563, 68.2458



60.6406, 61.6823, 82.8427

# Split Complementary

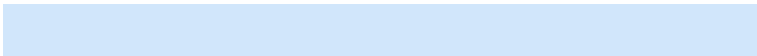
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



78.0187, 77.0563, 96.0429



71.2315, 77.0563, 68.2458



72.0778, 77.0563, 102.5359

# Square

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



71.2315, 77.0563, 68.2458



67.5472, 77.0563, 89.8408



75.2853, 77.0563, 101.7845



79.2434, 77.0563, 78.2293



# Rectangle

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



71.2315, 77.0563, 68.2458



67.6088, 77.0563, 77.7418



75.2853, 77.0563, 101.7845



79.1749, 77.0563, 90.3776

# Sweetspot

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



71.2336, 77.0597, 68.2475



93.8420, 99.5168, 102.5418



64.8075, 64.2053, 66.1050



20.0187, 21.2737, 21.5937



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.



71.2336, 77.0597, 68.2475



90.1624, 98.0447, 83.1743



67.3882, 75.0773, 68.0675



15.6014, 16.8171, 15.3282



34.4872, 41.5603, 6.2043



2.5486, 3.0712, 0.4585



# Inverse Universe

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



60.6406, 61.6823, 82.8427



74.2117, 74.8898, 105.1515



64.2049, 63.5198, 83.0095



13.5832, 13.8873, 18.1089



8.0866, 3.2347, 42.5813

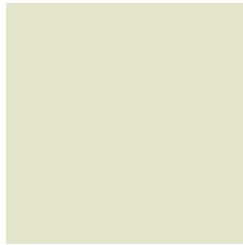


0.5977, 0.2391, 3.1466



# Previews

## White Background



This preview shows how the XYZ color 71.2315, 77.0563, 68.2458 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

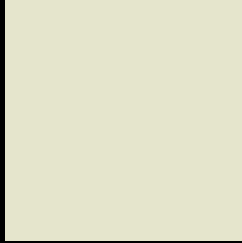
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 71.2315, 77.0563, 68.2458 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

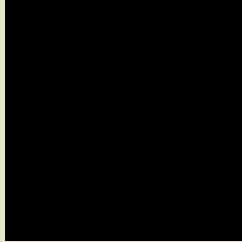
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

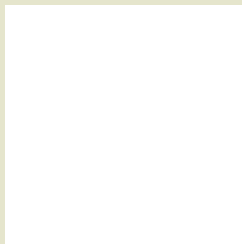
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 71.2315, 77.0563, 68.2458

## Background



This preview shows how black text looks on a background with the XYZ color 71.2315, 77.0563, 68.2458.



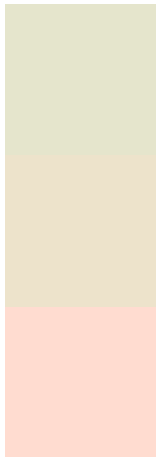
This preview shows how white text looks on a background with the XYZ color 71.2315, 77.0563,



# 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

71.2315, 77.0563, 68.2458

### Protanopia

73.1736, 77.2545, 67.5549

### Deuteranopia

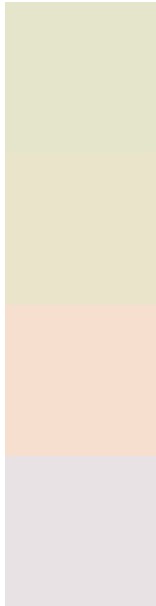
78.2184, 77.0005, 70.4145



## Tritanopia

76.4645, 77.1546, 94.0813

# Trichromacy



## Original Color

71.2315, 77.0563, 68.2458

## Protanomaly

72.4546, 77.2910, 67.5998

## Deuteranomaly

75.6562, 76.8732, 69.8820

## Tritanomaly

74.4787, 77.1500, 84.3648

# Monochromacy



## Original Color

71.2315, 77.0563, 68.2458

## Achromatopsia

72.2879, 76.0525, 82.8211

## Achromatomaly

71.8025, 76.3310, 77.2786

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 71.2315, 77.0563, 68.2458 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(229, 229, 204)` looks like.

```
.text, #text, p{  
    color:rgb(229, 229, 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(229, 229, 204) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(229, 229, 204) }
```

## Border

The CSS property to change the border of an element to XYZ 71.2315, 77.0563, 68.2458 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(229, 229, 204) }
```



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

```
.border{ border-color:rgb(229, 229, 204) }
```

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

Here you see how a box with a 4 pixel rgb(229, 229, 204) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(229, 229, 204); -webkit-box-  
shadow:4px 4px 4px 4px rgb(229, 229, 204);  
box-shadow:4px 4px 4px 4px rgb(229, 229,  
204) }
```

# Background

The CSS property to change the background color of an element to XYZ 71.2315, 77.0563, 68.2458 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(229, 229, 204) }
```

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

```
.background{ background-color: rgb(229,  
229, 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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