

# Converting Colors

XYZ(80.7764, 82.8938, 68.8706)

Have a look what the booklet for  
XYZ(80.7764, 82.8938, 68.8706)  
contains.

<b>XYZ(80.7150, 82.7715, 68.8491)</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(80.7150, 82.7715,  
68.8491)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFE7CC
RGB	255, 231, 204
RGB Percent	100%, 91%, 80%
CMY	0.0000, 0.0941, 0.2000
CMYK	0.00, 0.09, 0.20, 0.00
HSL	32°, 100%, 90%
HSV	32°, 20%, 100%
XYZ	80.7150, 82.7715, 68.8491
YIQ	235.0980, 22.9710, -3.3090

# Conversions

## Conversions Part 2

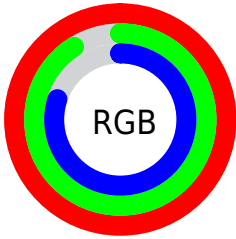
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	249, 255, 204
Decimal	16771020
CIE <sub>Lab</sub>	92.91, 4.03, 16.12
CIE <sub>LCh</sub>	93, 16.616, 75.966
Yxy	82.7715, 0.3474, 0.3563
Android (android.graphics.Color)	4294961100 (0xFFFFE7CC)
YUV	235.0980, -15.3313, 17.4541
Hunter-Lab	90.9788, -0.8506, 18.8169

# Details

The XYZ color **80.7150, 82.7715, 68.8491** is a light color, and the websafe version is hex **FFFCC**. A complement of this color would be **70.6945, 75.5419, 105.4628**, and the grayscale version is **79.1428, 83.2644, 90.6750**.

A 20% lighter version of the original color is **95.0500, 100.0000, 108.9000**, and **44.1237, 44.8677, 35.1889** is the 20% darker color. If you saturate the color by 10%, you get **74.6603, 75.1623, 52.9569**, and if you desaturate by 10%, it is **87.5047, 91.0486, 87.4588**.

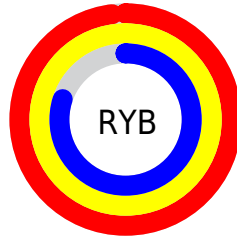
# Distribution



Red (100%)

Green (91%)

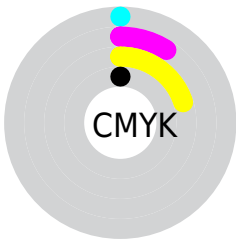
Blue (80%)



Red (98%)

Yellow (100%)

Blue (80%)

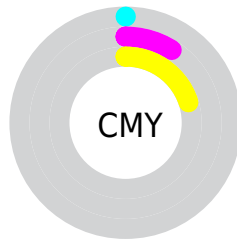


Cyan (0%)

Magenta (9%)

Yellow (20%)

Black (0%)



Cyan (0%)

Magenta (9%)


Yellow (20%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 80.7150, 82.7715, 68.8491 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 80.7150, 82.7715, 68.8491 by changing the saturation by 10% instead.




 80.7150, 82.7715,  
68.8491

 80.7150, 82.7715,  
68.8491


486.0391,  
504.2247, 475.1781

 60.6174, 62.0017,  
50.1178


133.3158,  
137.2554, 119.2317

 44.1678, 45.0340,  
35.1352


166.5496,  
171.7382, 151.7201

 31.0009, 31.4842,  
23.4827


204.8930,  
211.5609, 189.6313

 20.7514, 20.9679,  
14.7417

248.7111,  
257.1077, 233.3838

 13.0538, 13.1005,  
8.4937

298.3695,  
308.7631, 283.3962

 7.5429, 7.4978,  
4.3202

354.2333,

 3.8532, 3.7753,

366.9114, 340.0870

1.8026

416.6681,  
431.9372, 403.8748

■ 1.6194, 1.5487,  
0.4297

■ 0.4050, 0.3226,  
0.0000

■ 80.7150, 82.7715,  
68.8491

■ 80.7150, 82.7715,  
68.8491

■ 74.6603, 75.1623,  
52.9569

■ 87.5047, 91.0486,  
87.4588

■ 69.3056, 68.1914,  
39.6472

95.0500, 100.0000,  
108.9000

■ 64.6219, 61.8422,  
28.7814

■ 60.5754, 56.0935,  
20.2053

■ 57.1287, 50.9222,  
13.7473

■ 54.2397, 46.3032,  
9.2108

■ 51.8586, 42.2078,  
6.3620

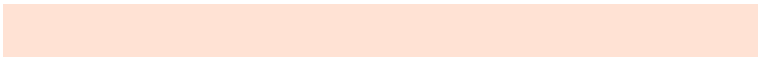
■ 49.9079, 38.5959,  
4.8194

■ 49.9078, 38.5956,  
4.8193

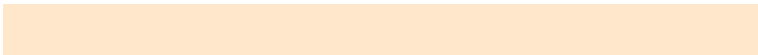
# Harmonies

## Analogous

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



84.6224, 82.7715, 73.9950



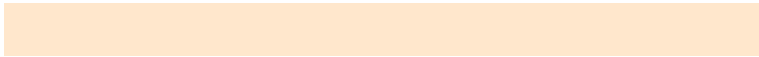
80.7150, 82.7715, 68.8491



76.3962, 82.7715, 69.0238

# Triad

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



80.7150, 82.7715, 68.8491



70.9105, 82.7715, 96.8665



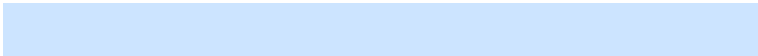
84.8317, 82.7715, 107.7974

# Complementary

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



80.7150, 82.7715, 68.8491



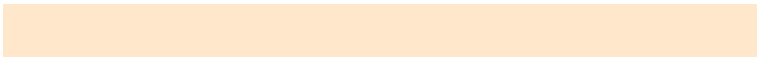
70.6945, 75.5419, 105.4628

# Split Complementary

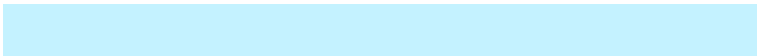
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



80.9922, 82.7715, 115.1381



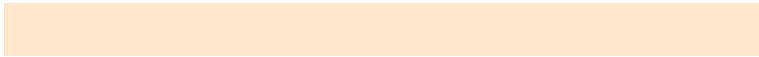
80.7150, 82.7715, 68.8491



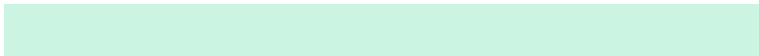
73.0070, 82.7715, 108.4416

# Square

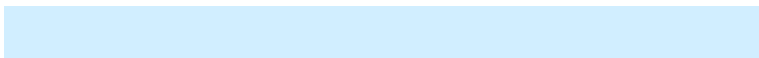
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



80.7150, 82.7715, 68.8491



70.8425, 82.7715, 84.4461



76.6634, 82.7715, 115.3842

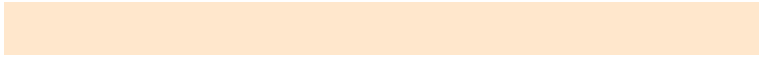


87.0578, 82.7715, 96.0510



# Rectangle

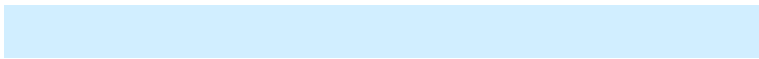
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



80.7150, 82.7715, 68.8491



73.8669, 82.7715, 72.1141



76.6634, 82.7715, 115.3842



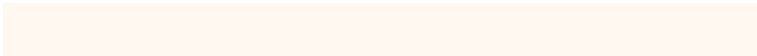
83.6808, 82.7715, 110.9077

# Sweetspot

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



80.7170, 82.7751, 68.8508



90.4301, 94.5464, 95.6877



76.9274, 70.0843, 83.3466



19.2517, 20.1129, 20.1868



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

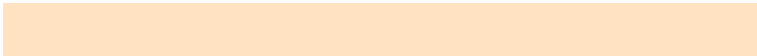


# Same Dimension

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



80.7170, 82.7751, 68.8508



78.2077, 79.6512, 62.1735



87.5873, 96.9789, 71.2303



18.8057, 19.5795, 18.9324



26.2288, 20.4688, 2.5685

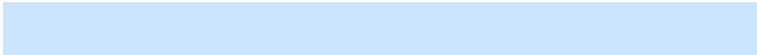


2.6632, 2.2118, 0.2866

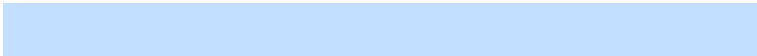


# Inverse Universe

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



70.6945, 75.5419, 105.4628



66.5260, 71.2212, 104.8485



64.7793, 63.3647, 103.4241



17.7077, 18.7870, 22.9429



13.0859, 11.0814, 50.8838

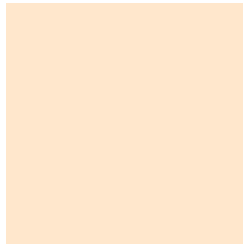


1.3824, 1.2955, 4.9905



# Previews

## White Background



This preview shows how the XYZ color 80.7150, 82.7715, 68.8491 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 80.7150, 82.7715, 68.8491 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

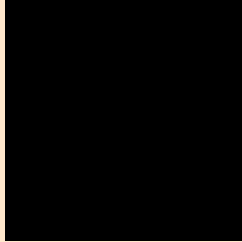
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 80.7150, 82.7715, 68.8491

## Background



This preview shows how black text looks on a background with the XYZ color 80.7150, 82.7715, 68.8491.



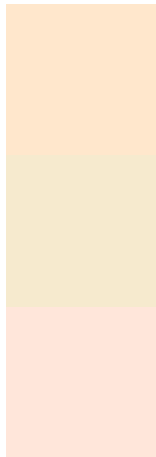
This preview shows how white text looks on a background with the XYZ color 80.7150, 82.7715,

68.8491.

# 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

80.7150, 82.7715, 68.8491

### Protanopia

78.5694, 82.8947, 70.2517

### Deuteranopia

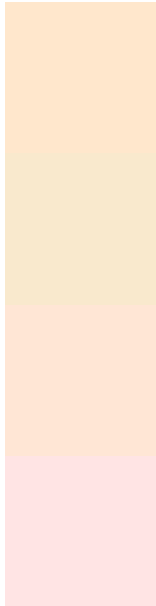
82.1917, 82.9156, 78.0020



## Tritanopia

84.5863, 82.5490, 94.6945

# Trichromacy



## Original Color

80.7150, 82.7715, 68.8491

## Protanomaly

79.2253, 82.8253, 69.5689

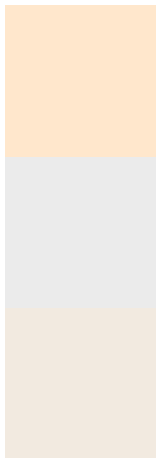
## Deuteranomaly

81.5471, 82.6577, 74.6073

## Tritanomaly

82.9870, 82.3482, 84.9197

# Monochromacy



## Original Color

80.7150, 82.7715, 68.8491

## Achromatopsia

78.9647, 83.0770, 90.4708

## Achromatomaly

79.4953, 83.1047, 82.3720

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 80.7150, 82.7715, 68.8491 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(255, 231, 204)` looks like.

```
.text, #text, p{  
    color:rgb(255, 231, 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(255, 231, 204) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 231, 204) }
```

## Border

The CSS property to change the border of an element to XYZ 80.7150, 82.7715, 68.8491 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(255, 231, 204) }
```



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

```
.border{ border-color:rgb(255, 231, 204) }
```

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

Here you see how a box with a 4 pixel rgb(255, 231, 204) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 231, 204); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 231, 204);  
box-shadow:4px 4px 4px 4px rgb(255, 231,  
204) }
```

# Background

The CSS property to change the background color of an element to XYZ 80.7150, 82.7715, 68.8491 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 231, 204) }
```

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

```
.background{ background-color: rgb(255,  
231, 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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