

# Converting Colors

XYZ(68.1703, 71.8629, 20.9502)

Have a look what the booklet for  
XYZ(68.1703, 71.8629, 20.9502)  
contains.

<b>XYZ(68.0732, 71.6939, 20.8401)</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(68.0732, 71.6939,  
20.8401)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFD95E
RGB	255, 217, 94
RGB Percent	100%, 85%, 37%
CMY	0.0000, 0.1490, 0.6314
CMYK	0.00, 0.15, 0.63, 0.00
HSL	46°, 100%, 68%
HSV	46°, 63%, 100%
XYZ	68.0732, 71.6939, 20.8401
YIQ	214.3400, 62.1310, -30.1970

# Conversions

## Conversions Part 2

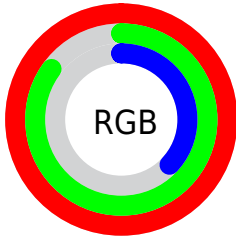
Format	Color
<a href="#">RYB</a>	<a href="#">144, 255, 94</a>
Decimal	<a href="#">16767326</a>
CIELab	<a href="#">87.82, -0.15, 63.74</a>
CIELCh	<a href="#">88, 63.743, 90.137</a>
Yxy	<a href="#">71.6939, 0.4238, 0.4464</a>
Android (android.graphics.Color)	<a href="#">4294957406</a> ( <a href="#">0xFFFFD95E</a> )
YUV	<a href="#">214.3400, -59.3276, 35.6588</a>
Hunter-Lab	<a href="#">84.6723, -4.6694, 44.6777</a>

# Details

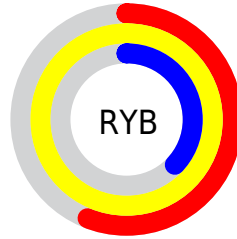
The XYZ color **68.0732, 71.6939, 20.8401** is a light color, and the websafe version is hex **FFCC66**. The color can be described as light muted yellow. A complement of this color would be **30.9170, 26.1012, 98.0156**, and the grayscale version is **64.5054, 67.8647, 73.9047**.

A 20% lighter version of the original color is **82.4248, 94.9499, 42.4167**, and **35.7599, 37.5763, 7.1185** is the 20% darker color. If you saturate the color by 10%, you get **65.5902, 68.2666, 15.2696**, and if you desaturate by 10%, it is **70.9940, 75.3923, 28.4221**.

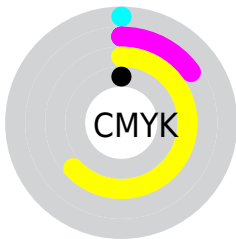
# Distribution



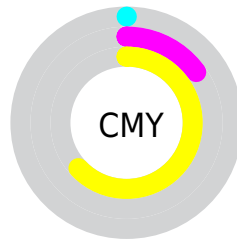
- Red (100%)
- Green (85%)
- Blue (37%)



- Red (56%)
- Yellow (100%)
- Blue (37%)



- Cyan (0%)
- Magenta (15%)
- Yellow (63%)
- Black (0%)




- Cyan (0%)
- Magenta (15%)
- Yellow (63%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 68.0732, 71.6939, 20.8401 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 68.0732, 71.6939, 20.8401 by changing the saturation by 10% instead.





 68.0732, 71.6939,  
20.8401


 68.0732, 71.6939,  
20.8401


443.1280,  
466.4755, 269.1806


 50.2312, 52.9087,  
12.8171


 115.4982,  
121.6212, 45.6986


 35.8157, 37.7299,  
7.1735


 145.8119,  
153.5321, 63.3711

 24.4613, 25.7731,  
3.4907


 181.0135,  
190.5870, 85.0973

 15.8028, 16.6540,  
1.3503

 221.4684,  
233.1703, 111.2955

 9.4747, 9.9881,  
0.1025

267.5419,  
281.6664, 142.3844

 5.1116, 5.3911,  
0.0000

319.5995,

 2.3483, 2.4785,

336.4597, 178.7826

0.0000

378.0064,  
397.9346, 220.9084

■ 0.8192, 0.8658,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 68.0732, 71.6939,  
20.8401

■ 68.0732, 71.6939,  
20.8401

■ 65.5902, 68.2666,  
15.2696

■ 70.9940, 75.3923,  
28.4221

■ 63.5004, 65.0834,  
11.5014

■ 74.3817, 79.3662,  
38.1883

■ 61.7578, 62.1277,  
9.2881

■ 78.2685, 83.6320,  
50.2977

■ 60.7153, 60.2111,  
8.4219

■ 82.6820, 88.2018,  
64.8933

■ 87.6477, 93.0866,  
82.1065

■ 93.1894, 98.2969,  
102.0597

95.0497, 99.9998,  
108.9000

# Harmonies

## Analogous

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



83.6945, 71.6939, 25.7763



68.0732, 71.6939, 20.8401



54.5438, 71.6939, 25.8719

# Triad

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



68.0732, 71.6939, 20.8401



45.9350, 71.6939, 127.8643



96.6431, 71.6939, 127.3843

# Complementary

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



68.0732, 71.6939, 20.8401



30.9170, 26.1012, 98.0156

# 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.



83.8331, 71.6939, 174.6747



68.0732, 71.6939, 20.8401



54.6479, 71.6939, 175.0165

# Square

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



68.0732, 71.6939, 20.8401



42.9749, 71.6939, 78.2623



68.2126, 71.6939, 194.6778



101.6062, 71.6939, 77.8630



# Rectangle

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



68.0732, 71.6939, 20.8401



48.1465, 71.6939, 35.8826



68.2126, 71.6939, 194.6778



93.0268, 71.6939, 144.6422

# Sweetspot

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



68.0749, 71.6973, 20.8415



84.6680, 90.1839, 71.6882



49.5634, 30.9942, 26.0169



17.8264, 19.0085, 14.3281



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.



68.0749, 71.6973, 20.8415



64.9536, 67.3309, 14.0159



65.7313, 86.7370, 23.8680



19.1766, 20.3213, 19.0560



31.8459, 31.7030, 4.4408



3.1842, 3.2537, 0.4602



# Inverse Universe

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



30.9170, 26.1012, 98.0156



25.2376, 18.7200, 96.8909



31.9247, 20.3151, 96.8456



17.3509, 18.0734, 22.8240



10.3749, 5.6594, 49.9801



1.0898, 0.7102, 4.8929



# Previews

## White Background



This preview shows how the XYZ color 68.0732, 71.6939, 20.8401 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

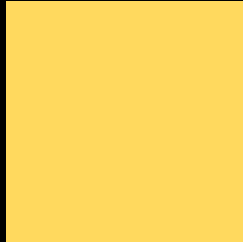
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 68.0732, 71.6939, 20.8401 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 68.0732, 71.6939, 20.8401

## Background



This preview shows how black text looks on a background with the XYZ color 68.0732, 71.6939, 20.8401.



This preview shows how white text looks on a background with the XYZ color 68.0732, 71.6939,



# 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

68.0732, 71.6939, 20.8401

### Protanopia

65.5782, 71.9516, 21.2582

### Deuteranopia

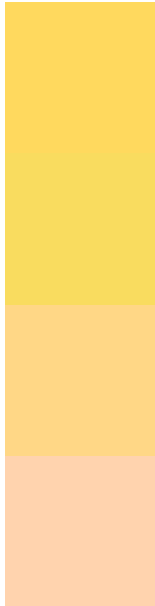
71.3724, 71.7875, 41.9929



## Tritanopia

76.7141, 71.5391, 77.4753

# Trichromacy



## Original Color

68.0732, 71.6939, 20.8401

## Protanomaly

66.7257, 72.1524, 21.2365

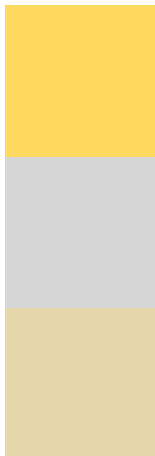
## Deuteranomaly

69.8435, 71.5821, 32.6898

## Tritanomaly

72.1742, 70.9045, 49.9263

# Monochromacy



## Original Color

68.0732, 71.6939, 20.8401

## Achromatopsia

63.9157, 67.2443, 73.2291

## Achromatomaly

63.8692, 68.1612, 47.8204

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 68.0732, 71.6939, 20.8401 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, 217, 94)` looks like.

```
.text, #text, p{  
    color:rgb(255, 217, 94)  
}
```

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, 217, 94) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 217, 94) }
```

## Border

The CSS property to change the border of an element to XYZ 68.0732, 71.6939, 20.8401 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, 217, 94) }
```



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

```
.border{ border-color:rgb(255, 217, 94) }
```

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

Here you see how a box with a 4 pixel rgb(255, 217, 94) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 217, 94); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 217, 94);  
box-shadow:4px 4px 4px 4px rgb(255, 217,  
94) }
```

# Background

The CSS property to change the background color of an element to XYZ 68.0732, 71.6939, 20.8401 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 217, 94) }
```

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

```
.background{ background-color: rgb(255,  
217, 94) }
```

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