

# Converting Colors

XYZ(72.7111, 83.2461, 15.3678)

Have a look what the booklet for  
XYZ(72.7111, 83.2461, 15.3678)  
contains.

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# Color

**XYZ(72.7040, 83.2320,  
15.3654)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFEF33
RGB	255, 239, 51
RGB Percent	100%, 94%, 20%
CMY	0.0000, 0.0627, 0.8000
CMYK	0.00, 0.06, 0.80, 0.00
HSL	55°, 100%, 60%
HSV	55°, 80%, 100%
XYZ	72.7040, 83.2320, 15.3654
YIQ	222.3520, 69.8840, -55.0760

# Conversions

## Conversions Part 2

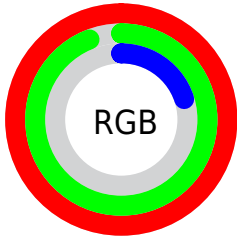
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">68, 255, 51</a>
Decimal	<a href="#">16772915</a>
CIELab	<a href="#">93.12, -13.05, 84.01</a>
CIELCh	<a href="#">93, 85.013, 98.832</a>
Yxy	<a href="#">83.2320, 0.4244, 0.4859</a>
Android (android.graphics.Color)	<a href="#">4294962995 (0xFFFFEF33)</a>
YUV	<a href="#">222.3520, -84.4765, 28.6323</a>
Hunter-Lab	<a href="#">91.2316, -17.4056, 53.8764</a>

# Details

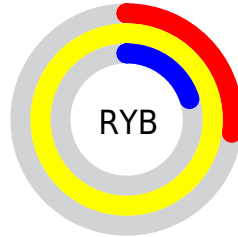
The XYZ color **72.7040, 83.2320, 15.3654** is a light color, and the websafe version is hex **FFFF33**. The color can be described as light washed yellow. A complement of this color would be **21.4227, 11.9384, 95.7822**, and the grayscale version is **70.2270, 73.8842, 80.4599**.

A 20% lighter version of the original color is **80.0373, 93.9949, 29.8440**, and **39.1816, 45.3363, 6.6857** is the 20% darker color. If you saturate the color by 10%, you get **71.7071, 81.9051, 12.9786**, and if you desaturate by 10%, it is **74.0190, 84.7029, 19.3786**.

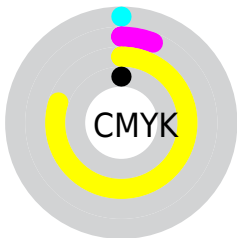
# Distribution



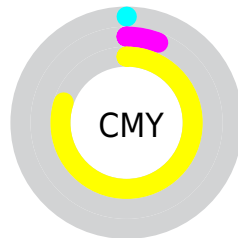
- Red (100%)
- Green (94%)
- Blue (20%)



- Red (27%)
- Yellow (100%)
- Blue (20%)



- Cyan (0%)
- Magenta (6%)
- Yellow (80%)
- Black (0%)




- Cyan (0%)
- Magenta (6%)
- Yellow (80%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 72.7040, 83.2320, 15.3654 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 72.7040, 83.2320, 15.3654 by changing the saturation by 10% instead.





 72.7040, 83.2320,  
15.3654

 72.7040, 83.2320,  
15.3654


459.1080,  
505.7594, 237.2838

 54.0215, 62.3816,  
8.9268


 122.0623,  
137.9003, 36.2443


 38.8496, 45.3411,  
4.5973


 153.4688,  
172.4870, 51.5216


 26.8229, 31.7262,  
1.9584


 189.8473,  
212.4213, 70.5822

 17.5762, 21.1524,  
0.5295

 231.5633,  
258.0875, 93.8447

 10.7440, 13.2355,  
0.0000

 278.9819,  
309.8700, 121.7275

 5.9610, 7.5909,  
0.0000

332.4687,

 2.8618, 3.8343,

368.1532, 154.6493

0.0000

392.3889,  
433.3215, 193.0286

■ 1.0811, 1.5813,  
0.0000

■ 0.0092, 0.3450,  
0.0000

■ 72.7040, 83.2320,  
15.3654

■ 72.7040, 83.2320,  
15.3654

■ 71.7071, 81.9051,  
12.9786

■ 74.0190, 84.7029,  
19.3786

■ 70.9505, 80.6815,  
11.8338

■ 75.6905, 86.3235,  
25.2453

■ 70.9503, 80.6810,  
11.8335

■ 77.7573, 88.1128,  
33.1620

■ 80.2519, 90.0835,  
43.2986

■ 83.2031, 92.2475,  
55.8077

■ 86.6373, 94.6151,  
70.8280

■ 90.5790, 97.1963,  
88.4878

95.0496, 99.9997,  
108.9000

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.



95.6330, 83.2320, 17.5550



72.7040, 83.2320, 15.3654



55.1442, 83.2320, 24.6578

# Triad

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



72.7040, 83.2320, 15.3654



50.1770, 83.2320, 191.5516



126.2348, 83.2320, 142.6218

# Complementary

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



72.7040, 83.2320, 15.3654



21.4227, 11.9384, 95.7822

# 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.



109.1722, 83.2320, 223.9705



72.7040, 83.2320, 15.3654



64.6081, 83.2320, 260.2517

# Square

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



72.7040, 83.2320, 15.3654



43.8406, 83.2320, 110.8282



85.8806, 83.2320, 274.3017



129.5207, 83.2320, 73.0404



# Rectangle

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



72.7040, 83.2320, 15.3654



47.7880, 83.2320, 40.7528



85.8806, 83.2320, 274.3017



121.7851, 83.2320, 170.2390

# Sweetspot

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



72.7059, 83.2359, 15.3671



85.2036, 93.6430, 64.5054



43.4675, 24.0457, 7.8204



17.9782, 19.8642, 12.6770



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.



72.7059, 83.2359, 15.3671



71.2362, 81.1630, 12.2044



52.9356, 80.3049, 15.8433



19.4322, 20.8326, 19.1412



37.1245, 42.2602, 6.2004



3.6494, 4.1841, 0.6153



# Inverse Universe

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



21.4227, 11.9384, 95.7822



18.6267, 8.1839, 95.2056



29.3881, 14.8230, 95.9191



17.1174, 17.6064, 22.7461



9.6022, 4.1141, 49.7226

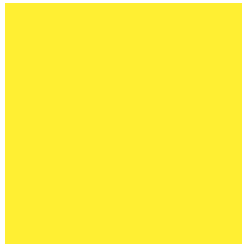


0.9726, 0.4758, 4.8539



# Previews

## White Background



This preview shows how the XYZ color 72.7040, 83.2320, 15.3654 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

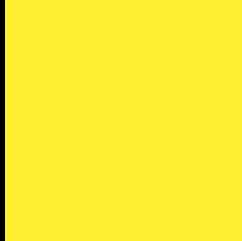
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 72.7040, 83.2320, 15.3654 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 72.7040, 83.2320, 15.3654**

## **Background**



This preview shows how black text looks on a background with the XYZ color 72.7040, 83.2320, 15.3654.



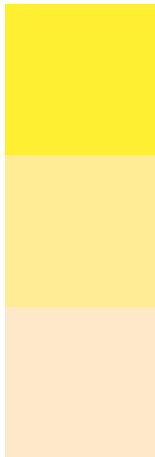
This preview shows how white text looks on a background with the XYZ color 72.7040, 83.2320,

15.3654.

# 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

72.7040, 83.2320, 15.3654

### Protanopia

76.5807, 83.3890, 40.0764

### Deuteranopia

80.7573, 83.2375, 67.6872



## Tritanopia

84.4160, 82.9199, 92.4448

# Trichromacy



## Original Color

72.7040, 83.2320, 15.3654



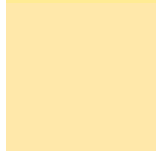
## Protanomaly

74.5048, 83.0206, 27.7205



## Deuteranomaly

76.2148, 82.7832, 39.5656



## Tritanomaly

77.3523, 81.8755, 49.7569

# Monochromacy



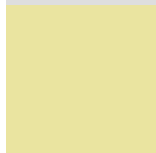
## Original Color

72.7040, 83.2320, 15.3654



## Achromatopsia

69.4303, 73.0461, 79.5472



## Achromatomaly

68.0203, 75.5173, 44.2490

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 72.7040, 83.2320, 15.3654 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, 239, 51)` looks like.

```
.text, #text, p{  
    color:rgb(255, 239, 51)  
}
```

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, 239, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 239, 51) }
```

## Border

The CSS property to change the border of an element to XYZ 72.7040, 83.2320, 15.3654 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, 239, 51) }
```



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

```
.border{ border-color:rgb(255, 239, 51) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 239, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 239, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 239, 51);  
box-shadow:4px 4px 4px 4px rgb(255, 239,  
51) }
```

# Background

The CSS property to change the background color of an element to XYZ 72.7040, 83.2320, 15.3654 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 239, 51) }
```

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

```
.background{ background-color: rgb(255,  
239, 51) }
```

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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