

# Converting Colors

XYZ(77.4890, 100.0000,  
33.7825)

Have a look what the booklet for  
XYZ(77.4890, 100.0000, 33.7825)  
contains.

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# Color

**XYZ(72.5516, 90.0809,  
31.9758)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E8FF7A
RGB	232, 255, 122
RGB Percent	91%, 100%, 48%
CMY	0.0902, 0.0000, 0.5216
CMYK	0.09, 0.00, 0.52, 0.00
HSL	70°, 100%, 74%
HSV	70°, 52%, 100%
XYZ	72.5516, 90.0809, 31.9758
YIQ	232.9610, 28.9850, -46.2390

# Conversions

## Conversions Part 2

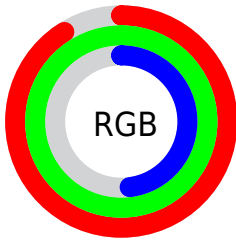
Format	Color
<a href="#">RYB</a>	<a href="#">122, 255, 145</a>
Decimal	<a href="#">15269754</a>
CIELab	<a href="#">96.03, -25.93, 60.22</a>
CIELCh	<a href="#">96, 65.565, 113.301</a>
Yxy	<a href="#">90.0809, 0.3728, 0.4629</a>
Android (android.graphics.Color)	<a href="#">4293459834 (0xFFE8FF7A)</a>
YUV	<a href="#">232.9610, -54.7038, -0.8428</a>
Hunter-Lab	<a href="#">94.9110, -29.6456, 46.4627</a>

# Details

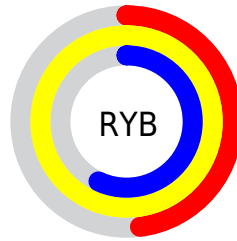
The XYZ color **72.5516, 90.0809, 31.9758** is a light color, and the websafe version is hex **FFFF66**. A complement of this color would be **36.6877, 27.1600, 97.9165**, and the grayscale version is **77.8056, 81.8576, 89.1429**.

A 20% lighter version of the original color is **84.9358, 95.9543, 55.6394**, and **38.6930, 49.8042, 13.0427** is the 20% darker color. If you saturate the color by 10%, you get **69.7596, 88.8009, 24.6519**, and if you desaturate by 10%, it is **75.7944, 91.5455, 41.4867**.

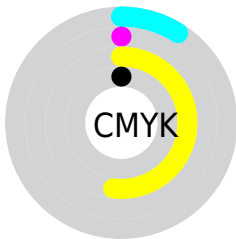
# Distribution



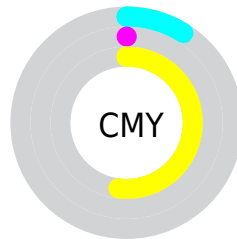
- Red (91%)
- Green (100%)
- Blue (48%)



- Red (48%)
- Yellow (100%)
- Blue (57%)



- Cyan (9%)
- Magenta (0%)
- Yellow (52%)
- Black (0%)




- Cyan (9%)
- Magenta (0%)
- Yellow (52%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 72.5516, 90.0809, 31.9758 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 72.5516, 90.0809, 31.9758 by changing the saturation by 10% instead.




 72.5516, 90.0809,  
31.9758

 72.5516, 90.0809,  
31.9758


458.5871,  
528.2940, 325.4983


 53.8965, 68.0477,  
21.0783


 121.8470,  
147.4508, 63.8706

 38.7492, 49.9366,  
12.9895


 153.2180,  
183.5563, 85.7051

 26.7445, 35.3630,  
7.2907


 189.5583,  
225.1213, 112.0223

 17.5171, 23.9426,  
3.5633

231.2333,  
272.5303, 143.2407

 10.7014, 15.2911,  
1.3890

278.6083,  
326.1677, 179.7790

 5.9322, 9.0239,  
0.1331

332.0487,

 2.8442, 4.7568,

386.4179, 222.0557

0.0000

391.9199,  
453.6652, 270.4893

■ 1.0719, 2.1053,  
0.0000

■ 0.0014, 0.6676,  
0.0000

■ 72.5516, 90.0809,  
31.9758

■ 72.5516, 90.0809,  
31.9758

■ 69.7596, 88.8009,  
24.6519

■ 75.7944, 91.5455,  
41.4867

■ 67.3844, 87.6916,  
19.3365

■ 79.5173, 93.2063,  
53.3366

■ 65.3878, 86.7378,  
15.8295

■ 83.7476, 95.0743,  
67.6684

■ 63.7232, 85.9210,  
13.8878

■ 88.5103, 97.1595,  
84.6123

■ 62.5956, 85.3543,  
13.1759

■ 93.8287, 99.4712,  
104.2895

95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

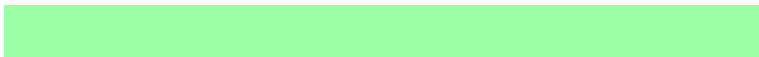
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



89.7523, 90.0809, 28.5688



72.5516, 90.0809, 31.9758



60.5904, 90.0809, 49.6830

# Triad

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



72.5516, 90.0809, 31.9758



66.4228, 90.0809, 201.9372



125.1369, 90.0809, 110.2016

# Complementary

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



72.5516, 90.0809, 31.9758



36.6877, 27.1600, 97.9165

# 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.



116.7361, 90.0809, 170.6989



72.5516, 90.0809, 31.9758



81.6150, 90.0809, 234.4804

# Square

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



72.5516, 90.0809, 31.9758



57.4168, 90.0809, 143.1335



100.1686, 90.0809, 221.3866



121.8102, 90.0809, 63.6416



# Rectangle

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



72.5516, 90.0809, 31.9758



56.3708, 90.0809, 72.0912



100.1686, 90.0809, 221.3866



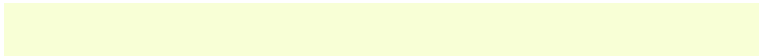
123.5561, 90.0809, 129.6729

# Sweetspot

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



72.5518, 90.0810, 31.9770



86.6148, 96.3315, 77.7811



54.7521, 42.6632, 23.7626



18.3290, 20.5269, 15.9005



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.



72.5518, 90.0810, 31.9770



69.5434, 88.7008, 24.1278



55.0695, 81.0686, 31.1589



19.2348, 20.9225, 19.1690



32.8205, 44.6577, 6.8900



3.2731, 4.3881, 0.6745



# Inverse Universe

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



36.6877, 27.1600, 97.9165



30.1287, 19.4350, 96.7711



51.7789, 34.9398, 98.6228



17.2958, 17.5287, 22.7217



10.0611, 4.0972, 49.6951

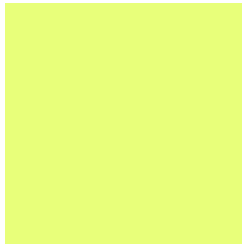


1.0567, 0.4386, 4.8422



# Previews

## White Background



This preview shows how the XYZ color 72.5516, 90.0809, 31.9758 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

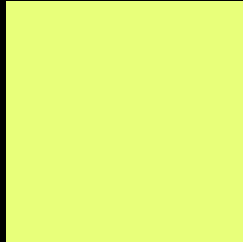
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 72.5516, 90.0809, 31.9758 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 72.5516, 90.0809, 31.9758**

## **Background**



This preview shows how black text looks on a background with the XYZ color 72.5516, 90.0809, 31.9758.



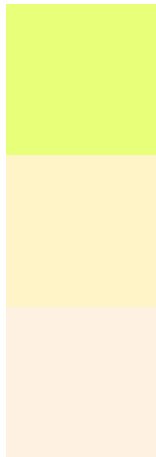
This preview shows how white text looks on a background with the XYZ color 72.5516, 90.0809, 31.9758.

31.9758.

# 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

72.5516, 90.0809, 31.9758

### Protanopia

83.7159, 89.5313, 67.5126

### Deuteranopia

86.4228, 89.6616, 84.7030



## Tritanopia

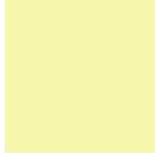
87.5113, 89.7234, 107.3138

# Trichromacy



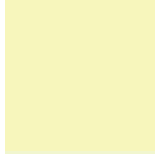
## Original Color

72.5516, 90.0809, 31.9758



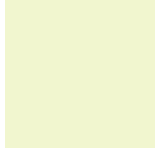
## Protanomaly

79.0649, 89.2742, 52.0942



## Deuteranomaly

80.3906, 89.3165, 60.5797



## Tritanomaly

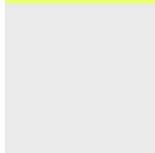
80.4939, 89.1173, 71.9904

# Monochromacy



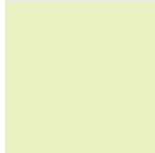
## Original Color

72.5516, 90.0809, 31.9758



## Achromatopsia

77.4512, 81.4847, 88.7368



## Achromatomaly

74.6852, 84.0845, 62.7457

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 72.5516, 90.0809, 31.9758 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(232, 255, 122)` looks like.

```
.text, #text, p{  
    color:rgb(232, 255, 122)  
}
```

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(232, 255, 122) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(232, 255, 122) }
```

## Border

The CSS property to change the border of an element to XYZ 72.5516, 90.0809, 31.9758 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(232, 255, 122) }
```



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

```
.border{ border-color:rgb(232, 255, 122) }
```

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

Here you see how a box with a 4 pixel `rgb(232, 255, 122)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(232, 255, 122); -webkit-box-  
shadow:4px 4px 4px 4px rgb(232, 255, 122);  
box-shadow:4px 4px 4px 4px rgb(232, 255,  
122) }
```

# Background

The CSS property to change the background color of an element to XYZ 72.5516, 90.0809, 31.9758 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(232, 255, 122) }
```

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

```
.background{ background-color: rgb(232,  
255, 122) }
```

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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