

# Converting Colors

XYZ(109.7793, 100.0000,  
21.5700)

Have a look what the booklet for  
XYZ(109.7793, 100.0000, 21.5700)  
contains.

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# Color

**XYZ(72.1858, 80.7148,  
19.7576)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFEA52
RGB	255, 234, 82
RGB Percent	100%, 92%, 32%
CMY	0.0000, 0.0823, 0.6784
CMYK	0.00, 0.08, 0.68, 0.00
HSL	53°, 100%, 66%
HSV	53°, 68%, 100%
XYZ	72.1858, 80.7148, 19.7576
YIQ	222.9510, 61.3080, -42.8200

# Conversions

## Conversions Part 2

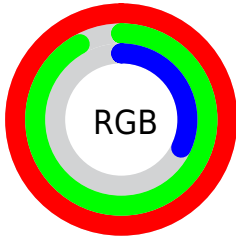
<b>Format</b>	<b>Color</b>
<b>RYB</b>	106, 255, 82
Decimal	16771666
CIELab	92.00, -9.35, 72.99
CIELCh	92, 73.583, 97.302
Yxy	80.7148, 0.4181, 0.4675
Android (android.graphics.Color)	4294961746 (0xFFFFEA52)
YUV	222.9510, -69.4888, 28.1070
Hunter-Lab	89.8414, -13.8013, 49.8501

# Details

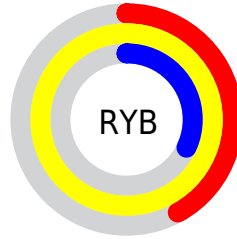
The XYZ color **72.1858, 80.7148, 19.7576** is a light color, and the websafe version is hex **FFFF66**. The color can be described as light muted yellow. A complement of this color would be **26.3800, 18.7141, 96.8289**, and the grayscale version is **70.5541, 74.2284, 80.8347**.

A 20% lighter version of the original color is **81.6602, 94.6441, 38.3903**, and **38.6751, 43.8620, 6.6863** is the 20% darker color. If you saturate the color by 10%, you get **70.5174, 78.6531, 15.2714**, and if you desaturate by 10%, it is **74.2337, 82.9590, 26.1498**.

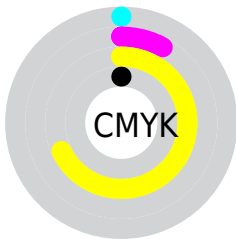
# Distribution



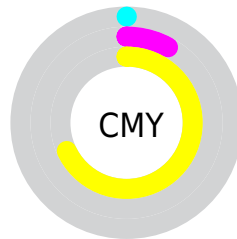
- Red (100%)
- Green (92%)
- Blue (32%)



- Red (42%)
- Yellow (100%)
- Blue (32%)



- Cyan (0%)
- Magenta (8%)
- Yellow (68%)
- Black (0%)



- Cyan (0%)
- Magenta (8%)
- Yellow (68%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 72.1858, 80.7148, 19.7576 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 72.1858, 80.7148, 19.7576 by changing the saturation by 10% instead.



72.1858, 80.7148,  
19.7576

72.1858, 80.7148,  
19.7576

457.3356,  
497.3385, 263.1605

53.5965, 60.3067,  
12.0366

121.3300,  
134.3702, 43.8640

38.5085, 43.6659,  
6.6458

152.6156,  
168.3864, 61.0866

26.5566, 30.4080,  
3.1665

188.8640,  
207.7074, 82.3134

17.3754, 20.1484,  
1.1803

230.4406,  
252.7176, 107.9630

10.5994, 12.5030,  
0.0000

277.7107,  
303.8014, 138.4540

5.8635, 7.0872,  
0.0000

331.0397,

2.8021, 3.5167,

361.3432, 174.2049

0.0000

390.7929,  
425.7275, 215.6342

■ 1.0500, 1.4071,  
0.0000

■ 0.0000, 0.2219,  
0.0000

■ 72.1858, 80.7148,  
19.7576

■ 72.1858, 80.7148,  
19.7576

■ 70.5174, 78.6531,  
15.2714

■ 74.2337, 82.9590,  
26.1498

■ 69.1805, 76.7455,  
12.4639

■ 76.6914, 85.3888,  
34.6317

■ 68.1205, 74.9730,  
11.0390

■ 79.5923, 88.0207,  
45.3709

■ 67.9103, 74.6010,  
10.8202

■ 82.9648, 90.8663,  
58.5163

■ 86.8348, 93.9360,  
74.2046

■ 91.2264, 97.2395,  
92.5618

95.0497, 99.9999,  
108.9000

# Harmonies

## Analogous

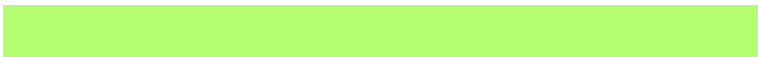
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



91.6280, 80.7148, 22.5507



72.1858, 80.7148, 19.7576



56.7157, 80.7148, 28.3312

# Triad

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



72.1858, 80.7148, 19.7576



51.2658, 80.7148, 167.3474



115.4091, 80.7148, 134.5285

# Complementary

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



72.1858, 80.7148, 19.7576



26.3800, 18.7141, 96.8289

# 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.



100.9416, 80.7148, 199.5368



72.1858, 80.7148, 19.7576



63.5183, 80.7148, 223.2956

# Square

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



72.1858, 80.7148, 19.7576



45.9955, 80.7148, 101.8021



81.4340, 80.7148, 237.0188



118.7526, 80.7148, 75.2973



# Rectangle

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



72.1858, 80.7148, 19.7576



49.9953, 80.7148, 42.7625



81.4340, 80.7148, 237.0188



111.5825, 80.7148, 157.0354

# Sweetspot

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



72.1877, 80.7186, 19.7592



85.9564, 93.2544, 70.5962



46.8109, 28.3166, 16.3822



18.1610, 19.7736, 14.1443



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.



72.1877, 80.7186, 19.7592



70.0617, 78.0349, 14.2148



58.9120, 83.2790, 20.9531



19.3620, 20.6922, 19.1178



35.5592, 39.1296, 5.6786



3.5130, 3.9113, 0.5698



# Inverse Universe

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



26.3800, 18.7141, 96.8289



21.7067, 12.6924, 95.9135



32.8217, 19.3148, 96.6054



17.1805, 17.7327, 22.7672



9.7421, 4.3937, 49.7692



1.0023, 0.5353, 4.8638



# Previews

## White Background



This preview shows how the XYZ color 72.1858, 80.7148, 19.7576 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 72.1858, 80.7148, 19.7576 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 72.1858, 80.7148, 19.7576**

## **Background**



This preview shows how black text looks on a background with the XYZ color 72.1858, 80.7148, 19.7576.



This preview shows how white text looks on a background with the XYZ color 72.1858, 80.7148,



# 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

72.1858, 80.7148, 19.7576

### Protanopia

73.7347, 80.4285, 30.7068

### Deuteranopia

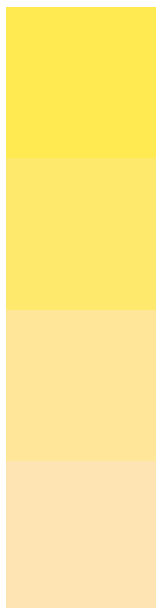
78.7210, 80.6418, 62.4553



## Tritanopia

82.7469, 80.5118, 89.0210

# Trichromacy



## Original Color

72.1858, 80.7148, 19.7576

## Protanomaly

73.1392, 80.6420, 26.1786

## Deuteranomaly

75.2866, 80.1535, 41.6401

## Tritanomaly

77.1201, 80.0015, 54.0250

# Monochromacy



## Original Color

72.1858, 80.7148, 19.7576

## Achromatopsia

70.1384, 73.7910, 80.3584

## Achromatomaly

69.1764, 75.5789, 49.9719

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 72.1858, 80.7148, 19.7576 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, 234, 82)` looks like.

```
.text, #text, p{  
    color:rgb(255, 234, 82)  
}
```

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, 234, 82) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 234, 82) }
```

## Border

The CSS property to change the border of an element to XYZ 72.1858, 80.7148, 19.7576 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, 234, 82) }
```



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

```
.border{ border-color:rgb(255, 234, 82) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 234, 82)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 234, 82); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 234, 82);  
box-shadow:4px 4px 4px 4px rgb(255, 234,  
82) }
```

# Background

The CSS property to change the background color of an element to XYZ 72.1858, 80.7148, 19.7576 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 234, 82) }
```

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

```
.background{ background-color: rgb(255,  
234, 82) }
```

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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