

# Converting Colors

XYZ(70.1758, 79.1013, 11.6704)

Have a look what the booklet for  
XYZ(70.1758, 79.1013, 11.6704)  
contains.

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# **Color**

**XYZ(70.1185, 78.9820,  
11.6643)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFE804
RGB	255, 232, 4
RGB Percent	100%, 91%, 2%
CMY	0.0000, 0.0902, 0.9842
CMYK	0.00, 0.09, 0.98, 0.00
HSL	55°, 100%, 51%
HSV	55°, 98%, 100%
XYZ	70.1185, 78.9820, 11.6643
YIQ	212.8850, 86.8960, -66.0320

# Conversions

## Conversions Part 2

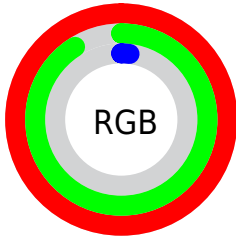
Format	Color
R <sub>Y</sub> B	29, 255, 4
Decimal	16771076
CIE Lab	91.23, -10.39, 89.89
CIE LCh	91, 90.485, 96.596
Yxy	78.9820, 0.4362, 0.4913
Android (android.graphics.Color)	4294961156 (0xFFFFE804)
YUV	212.8850, -102.9803, 36.9349
Hunter-Lab	88.8718, -14.6919, 54.4285

# Details

The XYZ color **70.1185, 78.9820, 11.6643** is a light color, and the websafe version is hex **FFFF33**. The color can be described as light saturated yellow. A complement of this color would be **18.4928, 8.0310, 95.1823**, and the grayscale version is **63.7997, 67.1223, 73.0962**.

A 20% lighter version of the original color is **78.9758, 93.5703, 24.2543**, and **37.7145, 42.7817, 6.2699** is the 20% darker color. If you saturate the color by 10%, you get **69.9943, 78.7691, 11.5149**, and if you desaturate by 10%, it is **70.9886, 80.3924, 12.9731**.

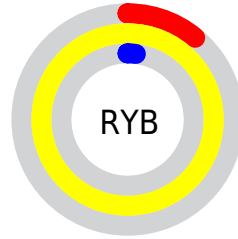
# Distribution



Red (100%)

Green (91%)

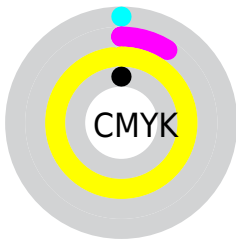
Blue (2%)



Red (11%)

Yellow (100%)

Blue (2%)

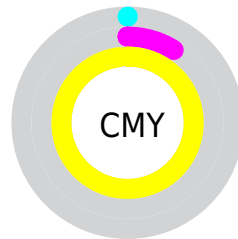


Cyan (0%)

Magenta (9%)

Yellow (98%)

Black (0%)



Cyan (0%)

Magenta (9%)

Yellow (98%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 70.1185, 78.9820, 11.6643 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 70.1185, 78.9820, 11.6643 by changing the saturation by 10% instead.



70.1185, 78.9820,  
11.6643

70.1185, 78.9820,  
11.6643

450.2259,  
491.4954, 213.0685

51.9031, 58.8810,  
6.3958

118.4031,  
131.9335, 29.5374

37.1518, 42.5173,  
3.0145

149.2030,  
165.5528, 42.9790

25.4993, 29.5066,  
1.1021

184.9284,  
204.4471, 59.9822

16.5801, 19.4644,  
0.0000

225.9447,  
249.0006, 80.9653

10.0290, 12.0063,  
0.0000

272.6172,  
299.5978, 106.3469

5.4806, 6.7480,  
0.0000

325.3114,

2.5696, 3.3050,

356.6231, 136.5456

0.0000

384.3925,  
420.4608, 171.9800

■ 0.9305, 1.2930,  
0.0000

■ 0.0000, 0.1357,  
0.0000

■ 70.1185, 78.9820,  
11.6643

■ 70.1185, 78.9820,  
11.6643

■ 69.9943, 78.7691,  
11.5149

■ 70.9886, 80.3924,  
12.9731

■ 72.1214, 81.9188,  
15.6294

■ 73.5784, 83.5889,  
19.9495

■ 75.4023, 85.4200,  
26.1584

■ 77.6294, 87.4266,  
34.4462

■ 80.2913, 89.6213,  
44.9800

■ 83.4165, 92.0157,  
57.9097

■ 87.0312, 94.6202,  
73.3723

■ 91.1593, 97.4445,  
91.4946

# Harmonies

## Analogous

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



93.9809, 78.9820, 14.3723



70.1185, 78.9820, 11.6643



51.7330, 78.9820, 19.2376

# Triad

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



70.1185, 78.9820, 11.6643



44.9436, 78.9820, 185.3807



123.2391, 78.9820, 146.5389

# Complementary

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



70.1185, 78.9820, 11.6643



18.4928, 8.0310, 95.1823

# 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.



104.5430, 78.9820, 232.4341



70.1185, 78.9820, 11.6643



58.8831, 78.9820, 261.7287

# Square

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



70.1185, 78.9820, 11.6643



39.2367, 78.9820, 101.3332



80.2493, 78.9820, 282.3086



127.9397, 78.9820, 72.2936



# Rectangle

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



70.1185, 78.9820, 11.6643



43.9504, 78.9820, 33.5291



80.2493, 78.9820, 282.3086



118.2211, 78.9820, 175.9318

# Sweetspot

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



70.1203, 78.9858, 11.6659



82.8910, 91.6241, 55.6996



41.5068, 21.4367, 3.1209



17.4545, 19.3928, 10.7263



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.



70.1203, 78.9858, 11.6659



69.9949, 78.7698, 11.5150



49.2252, 78.4585, 12.6654



19.4106, 20.7893, 19.1340



36.6325, 41.2762, 6.0364



3.6066, 4.0986, 0.6010



# Inverse Universe

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



18.4928, 8.0310, 95.1823



18.3636, 7.8473, 95.1545



23.8514, 10.2757, 95.3332



17.1368, 17.6452, 22.7526



9.6401, 4.1899, 49.7352

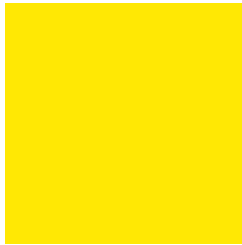


0.9817, 0.4941, 4.8569



# Previews

## White Background



This preview shows how the XYZ color 70.1185, 78.9820, 11.6643 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

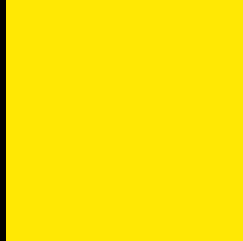
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 70.1185, 78.9820, 11.6643 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 70.1185, 78.9820, 11.6643**

## **Background**



This preview shows how black text looks on a background with the XYZ color 70.1185, 78.9820, 11.6643.



This preview shows how white text looks on a background with the XYZ color 70.1185, 78.9820,



# 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

70.1185, 78.9820, 11.6643

### Protanopia

71.7889, 78.7545, 23.2218

### Deuteranopia

76.9222, 78.6132, 57.0186



## Tritanopia

81.5203, 78.7424, 86.5035

# Trichromacy



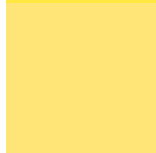
## Original Color

70.1185, 78.9820, 11.6643



## Protanomaly

70.7413, 78.7820, 16.3285



## Deuteranomaly

72.3132, 78.0787, 28.7121



## Tritanomaly

73.5105, 77.2485, 39.0530

# Monochromacy



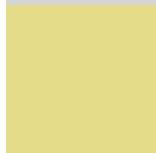
## Original Color

70.1185, 78.9820, 11.6643



## Achromatopsia

63.2451, 66.5387, 72.4607



## Achromatomaly

62.1035, 69.4865, 33.8059

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 70.1185, 78.9820, 11.6643 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, 232, 4)` looks like.

```
.text, #text, p{  
    color:rgb(255, 232, 4)  
}
```

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, 232, 4) colored shadow looks like.

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

## Border

The CSS property to change the border of an element to XYZ 70.1185, 78.9820, 11.6643 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, 232, 4) }
```



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

```
.border{ border-color:rgb(255, 232, 4) }
```

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

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

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

# Background

The CSS property to change the background color of an element to XYZ 70.1185, 78.9820, 11.6643 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 232, 4) }
```

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

```
.background{ background-color: rgb(255,  
232, 4) }
```

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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