

# Converting Colors

XYZ(93.8150, 100.0000,  
20.9450)

Have a look what the booklet for  
XYZ(93.8150, 100.0000, 20.9450)  
contains.

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# **Color**

**XYZ(77.3204, 91.3888,  
20.2212)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFFC4B
RGB	255, 252, 75
RGB Percent	100%, 99%, 29%
CMY	0.0000, 0.0117, 0.7059
CMYK	0.00, 0.01, 0.71, 0.00
HSL	59°, 100%, 65%
HSV	59°, 71%, 100%
XYZ	77.3204, 91.3888, 20.2212
YIQ	232.7190, 58.6050, -54.4110

# Conversions

## Conversions Part 2

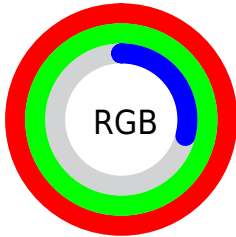
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	78, 255, 75
Decimal	16776267
CIE <sub>Lab</sub>	96.57, -18.46, 79.98
CIE <sub>LCh</sub>	97, 82.082, 102.997
Yxy	91.3888, 0.4093, 0.4837
Android (android.graphics.Color)	4294966347 (0xFFFFFC4B)
YUV	232.7190, -77.7555, 19.5404
Hunter-Lab	95.5975, -22.9227, 54.3770

# Details

The XYZ color **77.3204, 91.3888, 20.2212** 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 **23.6763, 14.1647, 96.0933**, and the grayscale version is **77.7786, 81.8291, 89.1119**.

A 20% lighter version of the original color is **81.3031, 94.5012, 36.5097**, and **41.9881, 50.9492, 7.6212** is the 20% darker color. If you saturate the color by 10%, you get **76.4844, 90.8450, 16.4658**, and if you desaturate by 10%, it is **78.5104, 92.0815, 25.8211**.

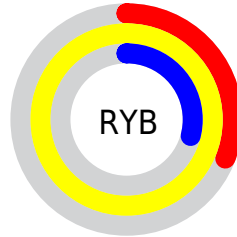
# Distribution



Red (100%)

Green (99%)

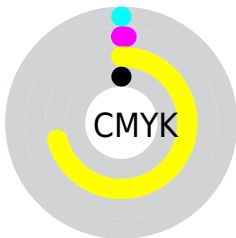
Blue (29%)



Red (31%)

Yellow (100%)

Blue (29%)

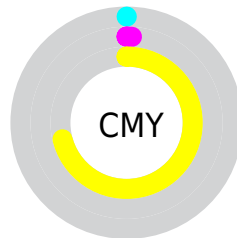


Cyan (0%)

Magenta (1%)

Yellow (71%)

Black (0%)



Cyan (0%)

Magenta (1%)


Yellow (71%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 77.3204, 91.3888, 20.2212 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 77.3204, 91.3888, 20.2212 by changing the saturation by 10% instead.




 77.3204, 91.3888,  
20.2212


 77.3204, 91.3888,  
20.2212


474.7309,  
532.5383, 265.7538

 57.8167, 69.1331,  
12.3703


 128.5621,  
149.2660, 44.6516


 41.9040, 50.8201,  
6.8708


 161.0308,  
185.6563, 62.0681

 29.2169, 36.0655,  
3.3042


 198.5520,  
227.5269, 83.5102

 19.3901, 24.4848,  
1.2520

 241.4908,  
275.2622, 109.3965

 12.0582, 15.6936,  
0.0219

290.2128,  
329.2466, 140.1454

 6.8558, 9.3076,  
0.0000

345.0833,

 3.4176, 4.9424,

389.8644, 176.1756

0.0000

406.4675,  
457.5002, 217.9056

■ 1.3782, 2.2135,  
0.0000

■ 0.2407, 0.7273,  
0.0000

■ 77.3204, 91.3888,  
20.2212

■ 77.3204, 91.3888,  
20.2212

■ 76.4844, 90.8450,  
16.4658

■ 78.5104, 92.0815,  
25.8211

■ 75.9515, 90.4196,  
14.3142

■ 80.0855, 92.9253,  
33.4562

■ 75.6619, 90.1043,  
13.4041

■ 82.0802, 93.9374,  
43.2998

■ 84.5237, 95.1294,  
55.5052

87.4424, 96.5121,  
70.2118

90.8609, 98.0952,  
87.5486

94.8019, 99.8877,  
107.6353

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.



100.4010, 91.3888, 21.0209



77.3204, 91.3888, 20.2212



60.1345, 91.3888, 32.7864

# Triad

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



77.3204, 91.3888, 20.2212



58.4456, 91.3888, 212.8227



136.2053, 91.3888, 141.1780

# Complementary

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



77.3204, 91.3888, 20.2212



23.6763, 14.1647, 96.0933

# 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.



120.5265, 91.3888, 223.3494



77.3204, 91.3888, 20.2212



74.5990, 91.3888, 275.6469

# Square

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



77.3204, 91.3888, 20.2212



50.6003, 91.3888, 130.6871



97.1586, 91.3888, 280.1762



137.2845, 91.3888, 73.7280



# Rectangle

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



77.3204, 91.3888, 20.2212



53.2081, 91.3888, 52.4879



97.1586, 91.3888, 280.1762



132.3565, 91.3888, 168.5392

# Sweetspot

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



77.3225, 91.3931, 20.2231



87.3123, 96.4515, 69.5515



45.1316, 26.8430, 10.0114



18.5067, 20.5592, 13.9689



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.



77.3225, 91.3931, 20.2231



76.2151, 90.6439, 15.3340



53.1790, 80.3527, 19.3646



19.5338, 21.0358, 19.1751



39.5471, 47.1054, 7.0079



3.8585, 4.6024, 0.6850



# Inverse Universe

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



23.6763, 14.1647, 96.0933



19.6814, 9.2824, 95.3621



35.4673, 19.9347, 96.5856



17.0272, 17.4261, 22.7161



9.4660, 3.8416, 49.6772

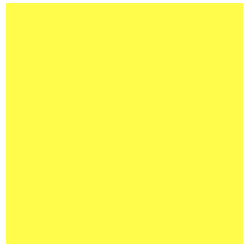


0.9298, 0.3903, 4.8396



# Previews

## White Background



This preview shows how the XYZ color 77.3204, 91.3888, 20.2212 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

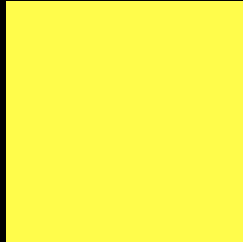
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 77.3204, 91.3888, 20.2212 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 77.3204, 91.3888, 20.2212**

## **Background**



This preview shows how black text looks on a background with the XYZ color 77.3204, 91.3888, 20.2212.



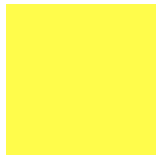
This preview shows how white text looks on a background with the XYZ color 77.3204, 91.3888,



# Color Blindness Simulation

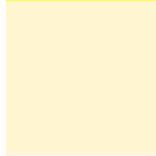
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



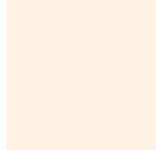
### Original Color

77.3204, 91.3888, 20.2212



### Protanopia

85.2776, 91.1189, 72.7676



### Deuteranopia

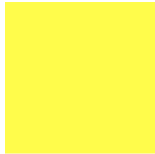
87.5735, 91.0744, 87.8264



## Tritanopia

89.6386, 90.9479, 101.6372

# Trichromacy



## Original Color

77.3204, 91.3888, 20.2212



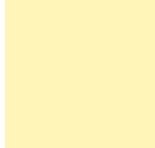
## Protanomaly

81.1526, 90.9329, 46.5323



## Deuteranomaly

81.8357, 90.2275, 53.1468



## Tritanomaly

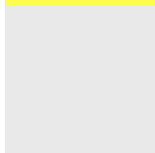
82.6494, 90.0676, 58.9276

# Monochromacy



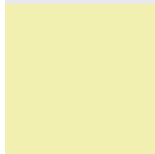
## Original Color

77.3204, 91.3888, 20.2212



## Achromatopsia

77.4512, 81.4847, 88.7368



## Achromatomaly

75.2722, 84.1555, 53.3507

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 77.3204, 91.3888, 20.2212 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, 252, 75)` looks like.

```
.text, #text, p{  
    color:rgb(255, 252, 75)  
}
```

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, 252, 75) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 252, 75) }
```

## Border

The CSS property to change the border of an element to XYZ 77.3204, 91.3888, 20.2212 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, 252, 75) }
```



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

```
.border{ border-color:rgb(255, 252, 75) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 252, 75)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 252, 75); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 252, 75);  
box-shadow:4px 4px 4px 4px rgb(255, 252,  
75) }
```

# Background

The CSS property to change the background color of an element to XYZ 77.3204, 91.3888, 20.2212 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 252, 75) }
```

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

```
.background{ background-color: rgb(255,  
252, 75) }
```

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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