

# Converting Colors

XYZ(87.8840, 100.0000,  
22.4861)

Have a look what the booklet for  
XYZ(87.8840, 100.0000, 22.4861)  
contains.

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# **Color**

**XYZ(78.4852, 93.3741,  
21.6710)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFFF51
RGB	255, 255, 81
RGB Percent	100%, 100%, 32%
CMY	0.0000, 0.0000, 0.6823
CMYK	0.00, 0.00, 0.68, 0.00
HSL	60°, 100%, 66%
HSV	60°, 68%, 100%
XYZ	78.4852, 93.3741, 21.6710
YIQ	235.1640, 55.8540, -54.1140

# Conversions

## Conversions Part 2

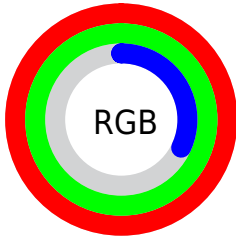
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	81, 255, 81
Decimal	16777041
CIE Lab	97.38, -19.62, 78.71
CIE LCh	97, 81.118, 103.995
Yxy	93.3741, 0.4055, 0.4825
Android (android.graphics.Color)	4294967121 (0xFFFFFFFF51)
YUV	235.1640, -76.0029, 17.3962
Hunter-Lab	96.6303, -24.1214, 54.3444

# Details

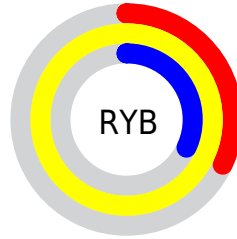
The XYZ color **78.4852, 93.3741, 21.6710** is a light color, and the websafe version is hex **FFFF66**. The color can be described as light muted yellow. A complement of this color would be **24.3868, 14.8554, 96.1898**, and the grayscale version is **79.6211, 83.7676, 91.2229**.

A 20% lighter version of the original color is **81.7336, 94.6734, 38.7769**, and **42.9291, 52.4489, 7.8611** is the 20% darker color. If you saturate the color by 10%, you get **77.7015, 93.0605, 17.5456**, and if you desaturate by 10%, it is **79.6277, 93.8310, 27.6885**.

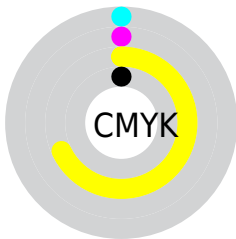
# Distribution



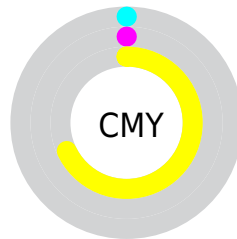
- Red (100%)
- Green (100%)
- Blue (32%)



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



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




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


# Brightness & Saturation Gradients

These gradients show how the XYZ color 78.4852, 93.3741, 21.6710 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 78.4852, 93.3741, 21.6710 by changing the saturation by 10% instead.





 78.4852, 93.3741,  
21.6710

 78.4852, 93.3741,  
21.6710


478.6277,  
538.9466, 273.7205

 58.7768, 70.7825,  
13.4194


 130.1956,  
152.0164, 47.0968


 42.6792, 52.1647,  
7.5838


 162.9284,  
188.8359, 65.1081

 29.8269, 37.1364,  
3.7459


 200.7333,  
231.1669, 87.2096

 19.8546, 25.3131,  
1.4870

 243.9757,  
279.3936, 113.8200

 12.3971, 16.3105,  
0.2082

293.0210,  
333.9006, 145.3577

 7.0888, 9.7441,  
0.0000

348.2345,

 3.5645, 5.2296,

395.0721, 182.2414

0.0000

409.9817,  
463.2927, 224.8895

■ 1.4589, 2.3826,  
0.0000

■ 0.2976, 0.8169,  
0.0000

■ 78.4852, 93.3741,  
21.6710

■ 78.4852, 93.3741,  
21.6710

■ 77.7015, 93.0605,  
17.5456

■ 79.6277, 93.8310,  
27.6885

■ 77.2341, 92.8736,  
15.0844


■ 81.1651, 94.4460,  
35.7841


■ 77.0243, 92.7897,  
13.9800

■ 83.1290, 95.2316,  
46.1255

■ 76.9996, 92.7798,  
13.8500

■ 85.5478, 96.1991,  
58.8626

 88.4475, 97.3590,  
74.1320

 91.8521, 98.7209,  
92.0605

95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

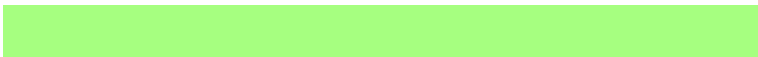
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



101.5008, 93.3741, 22.0838



78.4852, 93.3741, 21.6710



61.4560, 93.3741, 35.0929

# Triad

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



78.4852, 93.3741, 21.6710



60.6017, 93.3741, 217.3538



138.3677, 93.3741, 140.7115

# Complementary

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



78.4852, 93.3741, 21.6710



24.3868, 14.8554, 96.1898

# 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.



123.1206, 93.3741, 222.6074



78.4852, 93.3741, 21.6710



77.1132, 93.3741, 278.3085

# Square

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



78.4852, 93.3741, 21.6710



52.4034, 93.3741, 135.4505



99.8714, 93.3741, 280.5640



138.9081, 93.3741, 74.0296



# Rectangle

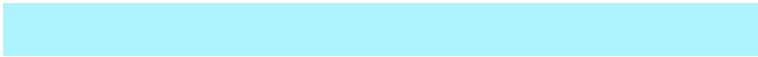
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



78.4852, 93.3741, 21.6710



54.6610, 93.3741, 55.6592



99.8714, 93.3741, 280.5640



134.6881, 93.3741, 167.8712

# Sweetspot

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



78.4852, 93.3740, 21.6722



87.8990, 97.1396, 71.2438



45.6683, 27.7400, 10.7332



18.6342, 20.7199, 14.3021



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.



78.4852, 93.3740, 21.6722



77.4908, 92.9763, 16.4365



53.3945, 80.4393, 20.4980



19.5613, 21.0908, 19.1843



40.2339, 48.4794, 7.2369



3.9174, 4.7203, 0.7046



# Inverse Universe

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



24.3868, 14.8554, 96.1898



20.1453, 9.7447, 95.4269



37.1420, 21.4309, 96.7867



17.0031, 17.3778, 22.7080



9.4315, 3.7726, 49.6657

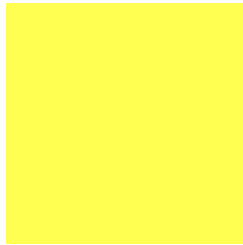


0.9183, 0.3673, 4.8358



# Previews

## White Background



This preview shows how the XYZ color 78.4852, 93.3741, 21.6710 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

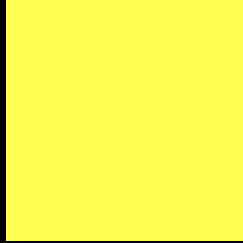
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 78.4852, 93.3741, 21.6710 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 78.4852, 93.3741, 21.6710**

## **Background**



This preview shows how black text looks on a background with the XYZ color 78.4852, 93.3741, 21.6710.



This preview shows how white text looks on a background with the XYZ color 78.4852, 93.3741,



# 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



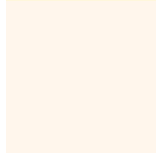
### Original Color

78.4852, 93.3741, 21.6710



### Protanopia

87.4190, 92.9488, 81.0436



### Deuteranopia

89.3361, 93.2277, 92.6431



## Tritanopia

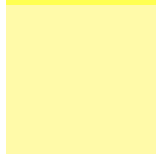
90.8460, 92.8635, 103.5788

# Trichromacy



## Original Color

78.4852, 93.3741, 21.6710



## Protanomaly

82.5870, 92.4958, 51.0368



## Deuteranomaly

83.3539, 92.3067, 56.6038



## Tritanomaly

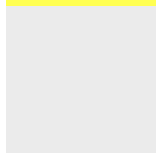
83.9927, 92.0689, 61.4883

# Monochromacy



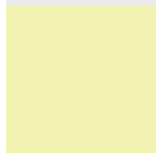
## Original Color

78.4852, 93.3741, 21.6710



## Achromatopsia

78.9647, 83.0770, 90.4708



## Achromatomaly

76.5068, 85.6362, 55.1449

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 78.4852, 93.3741, 21.6710 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, 255, 81)` looks like.

```
.text, #text, p{  
    color:rgb(255, 255, 81)  
}
```

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, 255, 81) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 255, 81) }
```

## Border

The CSS property to change the border of an element to XYZ 78.4852, 93.3741, 21.6710 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, 255, 81) }
```



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

```
.border{ border-color:rgb(255, 255, 81) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 255, 81)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 255, 81); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 255, 81);  
box-shadow:4px 4px 4px 4px rgb(255, 255,  
81) }
```

# Background

The CSS property to change the background color of an element to XYZ 78.4852, 93.3741, 21.6710 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 255, 81) }
```

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

```
.background{ background-color: rgb(255,  
255, 81) }
```

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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