

# Converting Colors

XYZ(77.5968, 93.0187, 16.9925)

Have a look what the booklet for  
XYZ(77.5968, 93.0187, 16.9925)  
contains.

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# Color

**XYZ(77.5975, 93.0190,  
16.9966)**

# Conversions

## Conversions Part 1

| Format      | Color                       |
|-------------|-----------------------------|
| Hex         | FFFF33                      |
| RGB         | 255, 255, 51                |
| RGB Percent | 100%, 100%, 20%             |
| CMY         | 0.0000, 0.0000, 0.8000      |
| CMYK        | 0.00, 0.00, 0.80, 0.00      |
| HSL         | 60°, 100%, 60%              |
| HSV         | 60°, 80%, 100%              |
| XYZ         | 77.5975, 93.0190, 16.9966   |
| YIQ         | 231.7440, 65.4840, -63.4440 |

# Conversions

## Conversions Part 2

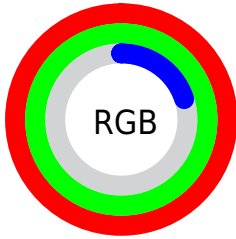
| <b>Format</b>                       | <b>Color</b>                   |
|-------------------------------------|--------------------------------|
| <b>R<sub>YB</sub></b>               | 51, 255, 51                    |
| Decimal                             | 16777011                       |
| CIE <sub>Lab</sub>                  | 97.24, -20.77, 87.55           |
| CIE <sub>LCh</sub>                  | 97, 89.977, 103.348            |
| Yxy                                 | 93.0190, 0.4136,<br>0.4958     |
| Android<br>(android.graphics.Color) | 4294967091<br>(0xFFFFFFFF33)   |
| YUV                                 | 231.7440, -89.1068,<br>20.3955 |
| Hunter-Lab                          | 96.4464, -25.1660,<br>57.0639  |

# Details

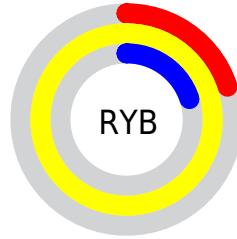
The XYZ color **77.5975, 93.0190, 16.9966** is a light color, and the websafe version is hex **FFFF33**, and the color name is **electric yellow**. The color can be described as light washed yellow. A complement of this color would be **20.6001, 10.2926, 95.5087**, and the grayscale version is **77.1211, 81.1374, 88.3586**.

A 20% lighter version of the original color is **80.1524, 94.0410, 30.4502**, and **42.6716, 52.3162, 7.8490** is the 20% darker color. If you saturate the color by 10%, you get **77.1806, 92.8522, 14.8032**, and if you desaturate by 10%, it is **78.3220, 93.3088, 20.8132**.

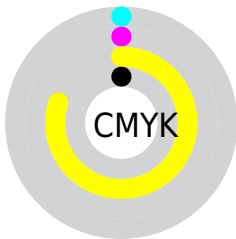
# Distribution



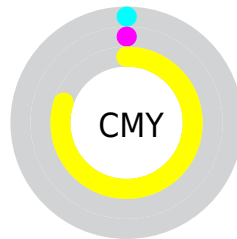
- Red (100%)
- Green (100%)
- Blue (20%)



- Red (20%)
- Yellow (100%)
- Blue (20%)



- Cyan (0%)
- Magenta (0%)
- Yellow (80%)
- Black (0%)




- Cyan (0%)
- Magenta (0%)
- Yellow (80%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 77.5975, 93.0190, 16.9966 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 77.5975, 93.0190, 16.9966 by changing the saturation by 10% instead.




 77.5975, 93.0190,  
16.9966


 77.5975, 93.0190,  
16.9966


475.6596,  
537.8034, 247.1961


 58.0450, 70.4873,  
10.0701


 128.9509,  
151.5249, 39.1105

 42.0883, 51.9239,  
5.3393


 161.4826,  
188.2679, 55.1350


 29.3618, 36.9444,  
2.3855


 199.0714,  
230.5168, 75.0293

 19.5004, 25.1645,  
0.7785

 242.0827,  
278.6560, 99.2119

 12.1385, 16.1996,  
0.0000

 290.8818,  
333.0698, 128.1013

 6.9110, 9.6655,  
0.0000

345.8341,

 3.4523, 5.1778,

394.1428, 162.1161

0.0000

407.3049,  
462.2591, 201.6749

■ 1.3972, 2.3519,  
0.0000

■ 0.2542, 0.8010,  
0.0000

■ 77.5975, 93.0190,  
16.9966

■ 77.5975, 93.0190,  
16.9966

■ 77.1806, 92.8522,  
14.8032

■ 78.3220, 93.3088,  
20.8132

■ 76.9996, 92.7798,  
13.8503

■ 79.3985, 93.7394,  
26.4818

■ 76.9996, 92.7798,  
13.8500

■ 80.8639, 94.3255,  
34.1981

■ 82.7504, 95.0802,  
44.1323

85.0871, 96.0148,  
56.4367

87.9002, 97.1401,  
71.2502

91.2142, 98.4657,  
88.7010

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.



103.1767, 93.0190, 17.6405



77.5975, 93.0190, 16.9966



58.9168, 93.0190, 29.7656

# Triad

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



77.5975, 93.0190, 16.9966



57.4086, 93.0190, 231.0177



144.0170, 93.0190, 146.9434

# Complementary

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



77.5975, 93.0190, 16.9966



20.6001, 10.2926, 95.5087

# 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.



126.4008, 93.0190, 241.0550



77.5975, 93.0190, 16.9966



75.1272, 93.0190, 303.3965

# Square

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



77.5975, 93.0190, 16.9966



48.8604, 93.0190, 137.1709



100.1868, 93.0190, 307.7609



145.0298, 93.0190, 72.2718



# Rectangle

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



77.5975, 93.0190, 16.9966



51.5164, 93.0190, 50.5577



100.1868, 93.0190, 307.7609



139.7070, 93.0190, 177.9783

# Sweetspot

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



77.5974, 93.0189, 16.9978



86.7150, 96.6660, 65.0093



43.0220, 23.8676, 5.4725



18.3490, 20.6059, 12.8007



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.



77.5974, 93.0189, 16.9978



77.0555, 92.8021, 14.1443



49.4956, 78.5319, 15.6826



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.



20.6001, 10.2926, 95.5087



18.2884, 7.5073, 95.0929



32.3721, 16.3613, 96.0596



17.0031, 17.3778, 22.7080



9.4315, 3.7726, 49.6657

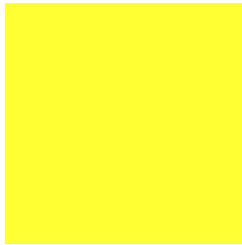


0.9183, 0.3673, 4.8358



# Previews

## White Background



This preview shows how the XYZ color 77.5975, 93.0190, 16.9966 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

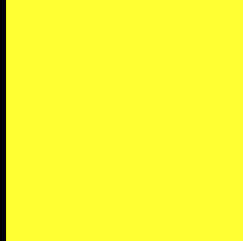
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 77.5975, 93.0190, 16.9966 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 77.5975, 93.0190, 16.9966**

## **Background**



This preview shows how black text looks on a background with the XYZ color 77.5975, 93.0190, 16.9966.



This preview shows how white text looks on a background with the XYZ color 77.5975, 93.0190,



# 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



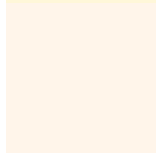
### Original Color

77.5975, 93.0190, 16.9966



### Protanopia

87.0251, 92.7913, 78.9694



### Deuteranopia

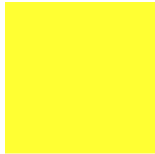
88.7437, 92.5053, 91.0199



## Tritanopia

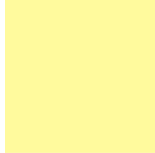
90.8460, 92.8635, 103.5788

# Trichromacy



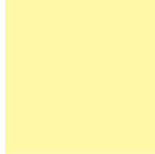
## Original Color

77.5975, 93.0190, 16.9966



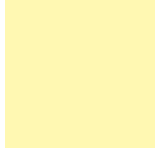
## Protanomaly

81.5114, 92.0655, 45.3726



## Deuteranomaly

82.0907, 91.8014, 49.9520



## Tritanomaly

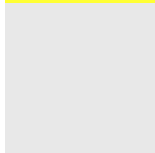
82.8433, 91.6092, 55.4355

# Monochromacy



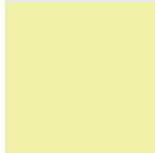
## Original Color

77.5975, 93.0190, 16.9966



## Achromatopsia

76.7008, 80.6952, 87.8771



## Achromatomaly

73.9782, 83.5986, 48.3135

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 77.5975, 93.0190, 16.9966 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, 51)` looks like.

```
.text, #text, p{  
    color:rgb(255, 255, 51)  
}
```

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, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 255, 51) }
```

## Border

The CSS property to change the border of an element to XYZ 77.5975, 93.0190, 16.9966 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, 51) }
```



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

```
.border{ border-color:rgb(255, 255, 51) }
```

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, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 255, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 255, 51);  
box-shadow:4px 4px 4px 4px rgb(255, 255,  
51) }
```

# Background

The CSS property to change the background color of an element to XYZ 77.5975, 93.0190, 16.9966 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, 51) }
```

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

```
.background{ background-color: rgb(255,  
255, 51) }
```

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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