

# Converting Colors

XYZ(82.1519, 100.0000,  
17.7895)

Have a look what the booklet for  
XYZ(82.1519, 100.0000, 17.7895)  
contains.

<b>XYZ(77.5335, 92.9934, 16.6594)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# **Color**

**XYZ(77.5335, 92.9934,  
16.6594)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFFF30
RGB	255, 255, 48
RGB Percent	100%, 100%, 19%
CMY	0.0000, 0.0000, 0.8117
CMYK	0.00, 0.00, 0.81, 0.00
HSL	60°, 100%, 59%
HSV	60°, 81%, 100%
XYZ	77.5335, 92.9934, 16.6594
YIQ	231.4020, 66.4470, -64.3770

# Conversions

## Conversions Part 2

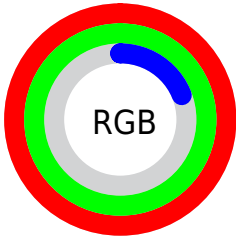
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	48, 255, 48
Decimal	16777008
CIE Lab	97.22, -20.86, 88.25
CIE LCh	97, 90.676, 103.297
Yxy	92.9934, 0.4142, 0.4968
Android (android.graphics.Color)	4294967088 (0xFFFFFFFF30)
YUV	231.4020, -90.4172, 20.6954
Hunter-Lab	96.4331, -25.2415, 57.2605

# Details

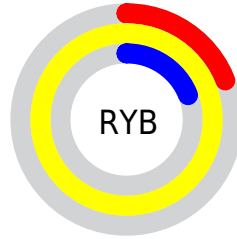
The XYZ color **77.5335, 92.9934, 16.6594** is a light color, and the websafe version is hex **FFFF33**. The color can be described as light washed yellow. A complement of this color would be **20.3269, 9.9635, 95.4595**, and the grayscale version is **76.8737, 80.8772, 88.0752**.

A 20% lighter version of the original color is **80.0945, 94.0178, 30.1455**, and **42.6716, 52.3162, 7.8490** is the 20% darker color. If you saturate the color by 10%, you get **77.1494, 92.8397, 14.6388**, and if you desaturate by 10%, it is **78.2193, 93.2677, 20.2724**.

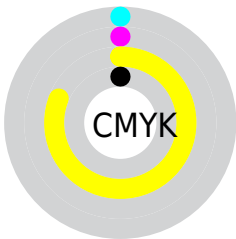
# Distribution



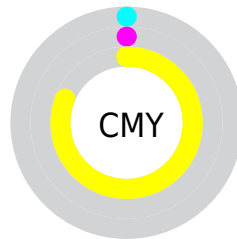
- Red (100%)
- Green (100%)
- Blue (19%)



- Red (19%)
- Yellow (100%)
- Blue (19%)



- Cyan (0%)
- Magenta (0%)
- Yellow (81%)
- Black (0%)



- Cyan (0%)
- Magenta (0%)
- Yellow (81%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 77.5335, 92.9934, 16.6594 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 77.5335, 92.9934, 16.6594 by changing the saturation by 10% instead.



77.5335, 92.9934,  
16.6594

77.5335, 92.9934,  
16.6594

475.4452,  
537.7209, 245.1790

57.9923, 70.4660,  
9.8326

128.8611,  
151.4895, 38.5218

42.0457, 51.9065,  
5.1839

161.3783,  
188.2270, 54.3945

29.3283, 36.9306,  
2.2950

198.9515,  
230.4699, 74.1195

19.4749, 25.1538,  
0.7284

241.9460,  
278.6028, 98.1155

12.1199, 16.1916,  
0.0000

290.7273,  
333.0099, 126.8008

6.8982, 9.6599,  
0.0000

345.6607,

3.4443, 5.1740,

394.0757, 160.5942

0.0000

407.1115,  
462.1846, 199.9141

■ 1.3928, 2.3497,  
0.0000

■ 0.2511, 0.7998,  
0.0000

■ 77.5335, 92.9934,  
16.6594

■ 77.5335, 92.9934,  
16.6594

■ 77.1494, 92.8397,  
14.6388


■ 78.2193, 93.2677,  
20.2724


■ 76.9996, 92.7798,  
13.8500


■ 79.2524, 93.6809,  
25.7123

■ 80.6703, 94.2481,  
33.1786

■ 82.5058, 94.9823,  
42.8437

 84.7880, 95.8952,  
54.8619

 87.5438, 96.9975,  
69.3735

 90.7977, 98.2991,  
86.5078

94.5724, 99.8090,  
106.3852

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.



103.3166, 92.9934, 17.3196



77.5335, 92.9934, 16.6594



58.7235, 92.9934, 29.3674

# Triad

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



77.5335, 92.9934, 16.6594



57.1611, 92.9934, 232.1092



144.4707, 92.9934, 147.4607

# Complementary

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



77.5335, 92.9934, 16.6594



20.3269, 9.9635, 95.4595

# 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.



126.6611, 92.9934, 242.5717



77.5335, 92.9934, 16.6594



74.9705, 92.9934, 305.4363

# Square

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



77.5335, 92.9934, 16.6594



48.5887, 92.9934, 137.2963



100.2098, 92.9934, 309.9900



145.5248, 92.9934, 72.1456



# Rectangle

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



77.5335, 92.9934, 16.6594



51.2764, 92.9934, 50.1640



100.2098, 92.9934, 309.9900



140.1088, 92.9934, 178.8119

# Sweetspot

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



77.5334, 92.9933, 16.6606



86.7151, 96.6660, 65.0093



42.8311, 23.5883, 5.0930



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.



77.5334, 92.9933, 16.6606



77.0415, 92.7966, 14.0707



49.1503, 78.3613, 15.3323



19.5613, 21.0908, 19.1843



40.2340, 48.4794, 7.2369



3.9174, 4.7203, 0.7046



# Inverse Universe

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



20.3269, 9.9635, 95.4595



18.2288, 7.4354, 95.0822



31.9639, 15.9626, 96.0041



17.0031, 17.3778, 22.7080



9.4315, 3.7726, 49.6657

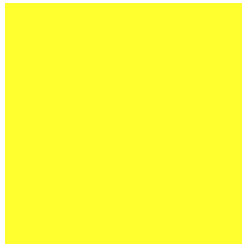


0.9183, 0.3673, 4.8358



# Previews

## White Background



This preview shows how the XYZ color 77.5335, 92.9934, 16.6594 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

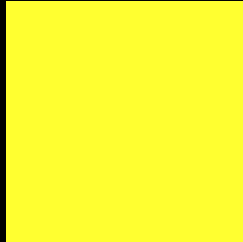
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 77.5335, 92.9934, 16.6594 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 77.5335, 92.9934, 16.6594**

## **Background**



This preview shows how black text looks on a background with the XYZ color 77.5335, 92.9934, 16.6594.



This preview shows how white text looks on a background with the XYZ color 77.5335, 92.9934,



# 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



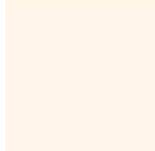
### Original Color

77.5335, 92.9934, 16.6594



### Protanopia

87.0251, 92.7913, 78.9694



### Deuteranopia

88.7437, 92.5053, 91.0199



## Tritanopia

90.8460, 92.8635, 103.5788

# Trichromacy



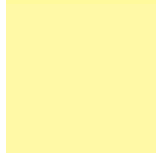
## Original Color

77.5335, 92.9934, 16.6594



## Protanomaly

81.4264, 92.0315, 44.9247



## Deuteranomaly

81.9986, 91.7645, 49.4669



## Tritanomaly

82.7432, 91.5691, 54.9085

# Monochromacy



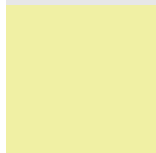
## Original Color

77.5335, 92.9934, 16.6594



## Achromatopsia

75.9547, 79.9103, 87.0223



## Achromatomaly

73.7961, 83.5258, 47.3546

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 77.5335, 92.9934, 16.6594 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, 48)` looks like.

```
.text, #text, p{  
    color:rgb(255, 255, 48)  
}
```

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, 48) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 255, 48) }
```

## Border

The CSS property to change the border of an element to XYZ 77.5335, 92.9934, 16.6594 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, 48) }
```



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

```
.border{ border-color:rgb(255, 255, 48) }
```

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, 48) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 255, 48); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 255, 48);  
box-shadow:4px 4px 4px 4px rgb(255, 255,  
48) }
```

# Background

The CSS property to change the background color of an element to XYZ 77.5335, 92.9934, 16.6594 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, 48) }
```

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

```
.background{ background-color: rgb(255,  
255, 48) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor