

# Converting Colors

XYZ(114.0884, 137.6212,  
37.4515)

Have a look what the booklet for  
XYZ(114.0884, 137.6212, 37.4515)  
contains.

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# Color

**XYZ(80.2109, 94.0644,  
30.7583)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFFF75
RGB	255, 255, 117
RGB Percent	100%, 100%, 46%
CMY	0.0000, 0.0000, 0.5412
CMYK	0.00, 0.00, 0.54, 0.00
HSL	60°, 100%, 73%
HSV	60°, 54%, 100%
XYZ	80.2109, 94.0644, 30.7583
YIQ	239.2680, 44.2980, -42.9180

# Conversions

## Conversions Part 2

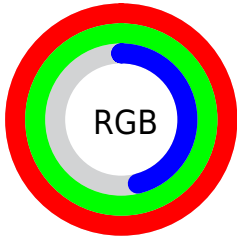
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">117, 255, 117</a>
Decimal	<a href="#">16777077</a>
CIELab	<a href="#">97.66, -17.41, 64.73</a>
CIELCh	<a href="#">98, 67.032, 105.050</a>
Yxy	<a href="#">94.0644, 0.3912, 0.4588</a>
Android (android.graphics.Color)	<a href="#">4294967157</a> ( <a href="#">0xFFFFFFFF75</a> )
YUV	<a href="#">239.2680, -60.2781, 13.7970</a>
Hunter-Lab	<a href="#">96.9868, -22.1022, 49.0876</a>

# Details

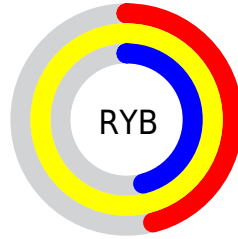
The XYZ color **80.2109, 94.0644, 30.7583** is a light color, and the websafe version is hex **FFFF66**. A complement of this color would be **31.7485, 23.7257, 97.5139**, and the grayscale version is **82.6829, 86.9888, 94.7308**.

A 20% lighter version of the original color is **84.5428, 95.7971, 53.5700**, and **43.8013, 52.4609, 12.2323** is the 20% darker color. If you saturate the color by 10%, you get **78.9099, 93.5439, 23.9087**, and if you desaturate by 10%, it is **81.9203, 94.7481, 39.7606**.

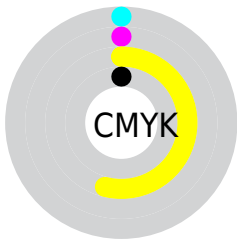
# Distribution



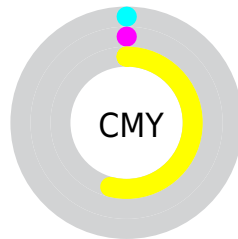
- Red (100%)
- Green (100%)
- Blue (46%)



- Red (46%)
- Yellow (100%)
- Blue (46%)



- Cyan (0%)
- Magenta (0%)
- Yellow (54%)
- Black (0%)




- Cyan (0%)
- Magenta (0%)
- Yellow (54%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 80.2109, 94.0644, 30.7583 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 80.2109, 94.0644, 30.7583 by changing the saturation by 10% instead.





 80.2109, 94.0644,  
30.7583

 80.2109, 94.0644,  
30.7583


484.3690,  
541.1654, 319.7399

 60.2010, 71.3565,  
20.1579

 132.6112,  
152.9714, 61.9344

 43.8307, 52.6332,  
12.3247


 165.7322,  
189.9393, 83.3473

 30.7348, 37.5100,  
6.8400


 203.9544,  
232.4294, 109.2015

 20.5478, 25.6026,  
3.2853


247.6430,  
280.8259, 139.9154

 12.9045, 16.5266,  
1.2421

297.1634,  
335.5134, 175.9077

 7.4393, 9.8976,  
0.0136


352.8810,


 3.7871, 5.3311,


396.8762, 217.5968


0.0000


415.1611,  
465.2988, 265.4014


 1.5824, 2.4428,  
0.0000


 0.3809, 0.8478,  
0.0000


 80.2109, 94.0644,  
30.7583


 80.2109, 94.0644,  
30.7583


 78.9099, 93.5439,  
23.9087


 81.9203, 94.7481,  
39.7606


 77.9832, 93.1733,  
19.0290


 84.0681, 95.6072,  
51.0709

 77.3914, 92.9365,  
15.9123

 86.6819, 96.6527,  
64.8346

 77.0859, 92.8143,  
14.3042

 89.7867, 97.8947,  
81.1839

 76.9997, 92.7798,  
13.8500

 93.4058, 99.3423,  
100.2417

95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

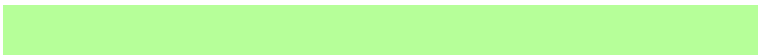
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



99.2113, 94.0644, 30.7372



80.2109, 94.0644, 30.7583



65.8667, 94.0644, 44.6647

# Triad

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



80.2109, 94.0644, 30.7583



65.9033, 94.0644, 196.2636



129.7558, 94.0644, 131.9983

# Complementary

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



80.2109, 94.0644, 30.7583



31.7485, 23.7257, 97.5139

# 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.



117.9741, 94.0644, 196.0655



80.2109, 94.0644, 30.7583



80.2679, 94.0644, 241.2216

# Square

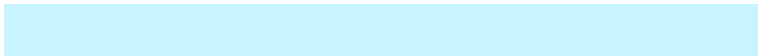
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



80.2109, 94.0644, 30.7583



58.4417, 94.0644, 132.2062



99.2770, 94.0644, 241.1384



129.7347, 94.0644, 77.4819



# Rectangle

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



80.2109, 94.0644, 30.7583



60.0886, 94.0644, 64.1738



99.2770, 94.0644, 241.1384



126.9779, 94.0644, 153.4615

# Sweetspot

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



80.2109, 94.0644, 30.7595



89.1631, 97.6452, 77.9003



50.8129, 35.2680, 20.9601



18.9432, 20.8435, 15.9292



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

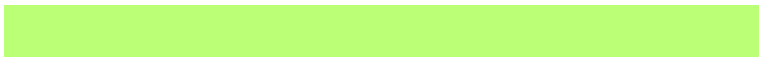
The Same Dimension uses a secret algorithm to generate beautiful new colors.



80.2109, 94.0644, 30.7595



78.8135, 93.5054, 23.4008



59.2213, 83.2438, 29.7772



19.5613, 21.0908, 19.1843



40.2340, 48.4795, 7.2369



3.9174, 4.7203, 0.7046



# Inverse Universe

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



31.7485, 23.7257, 97.5139



25.7871, 16.5427, 96.4417



44.6619, 30.3829, 98.1183



17.0031, 17.3778, 22.7080



9.4315, 3.7726, 49.6657

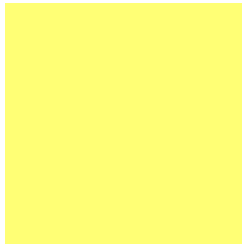


0.9183, 0.3673, 4.8358



# Previews

## White Background



This preview shows how the XYZ color 80.2109, 94.0644, 30.7583 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

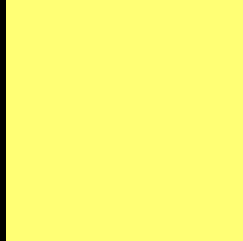
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 80.2109, 94.0644, 30.7583 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

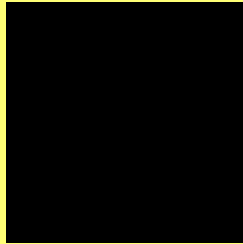
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 80.2109, 94.0644, 30.7583**

## **Background**



This preview shows how black text looks on a background with the XYZ color 80.2109, 94.0644, 30.7583.



This preview shows how white text looks on a background with the XYZ color 80.2109, 94.0644,



# Color Blindness Simulation

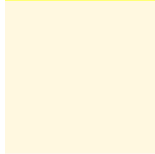
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



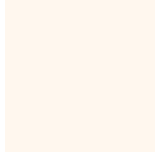
### Original Color

80.2109, 94.0644, 30.7583



### Protanopia

88.2619, 93.7766, 83.9698



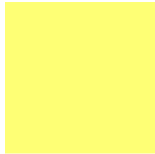
### Deuteranopia

89.9334, 93.9546, 94.2840

## **Tritanopia**

91.6084, 94.1366, 104.6087

# Trichromacy



## Original Color

80.2109, 94.0644, 30.7583



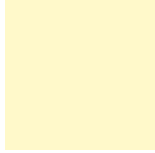
## Protanomaly

84.4941, 93.7571, 59.5426



## Deuteranomaly

85.1632, 93.5263, 64.6027



## Tritanomaly

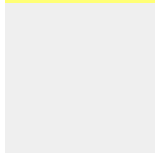
85.7764, 93.2756, 69.3602

# Monochromacy



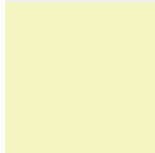
## Original Color

80.2109, 94.0644, 30.7583



## Achromatopsia

82.0431, 86.3157, 93.9978



## Achromatomaly

80.1589, 88.6574, 64.5175

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 80.2109, 94.0644, 30.7583 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, 117)` looks like.

```
.text, #text, p{  
    color:rgb(255, 255, 117)  
}
```

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, 117) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 255, 117) }
```

## Border

The CSS property to change the border of an element to XYZ 80.2109, 94.0644, 30.7583 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, 117) }
```



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

```
.border{ border-color:rgb(255, 255, 117) }
```

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, 117)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 255, 117); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 255, 117);  
box-shadow:4px 4px 4px 4px rgb(255, 255,  
117) }
```

# Background

The CSS property to change the background color of an element to XYZ 80.2109, 94.0644, 30.7583 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, 117) }
```

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

```
.background{ background-color: rgb(255,  
255, 117) }
```

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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