

# Converting Colors

XYZ(112.9671, 100.0000,  
37.3879)

Have a look what the booklet for  
XYZ(112.9671, 100.0000, 37.3879)  
contains.

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# **Color**

**XYZ(74.4034, 80.2468,  
35.6125)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFE78A
RGB	255, 231, 138
RGB Percent	100%, 91%, 54%
CMY	0.0000, 0.0941, 0.4588
CMYK	0.00, 0.09, 0.46, 0.00
HSL	48°, 100%, 77%
HSV	48°, 46%, 100%
XYZ	74.4034, 80.2468, 35.6125
YIQ	227.5740, 44.1570, -23.8350

# Conversions

## Conversions Part 2

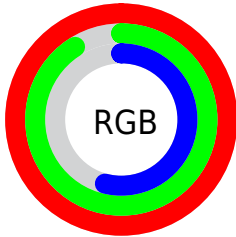
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	168, 255, 138
Decimal	16770954
CIE Lab	91.80, -3.83, 48.06
CIE LCh	92, 48.208, 94.552
Yxy	80.2468, 0.3911, 0.4218
Android (android.graphics.Color)	4294961034 (0xFFFFE78A)
YUV	227.5740, -44.1600, 24.0526
Hunter-Lab	89.5806, -8.5084, 39.1358

# Details

The XYZ color **74.4034, 80.2468, 35.6125** is a light color, and the websafe version is hex **FFFF99**. A complement of this color would be **41.4513, 38.4628, 99.8470**, and the grayscale version is **73.7230, 77.5623, 84.4654**.

A 20% lighter version of the original color is **86.6256, 96.6303, 64.5379**, and **39.9700, 43.4583, 15.0857** is the 20% darker color. If you saturate the color by 10%, you get **71.3285, 76.7126, 26.5240**, and if you desaturate by 10%, it is **77.9594, 84.0493, 47.0012**.

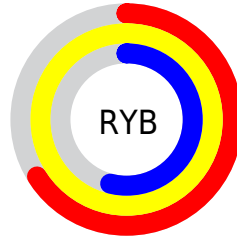
# Distribution



Red (100%)

Green (91%)

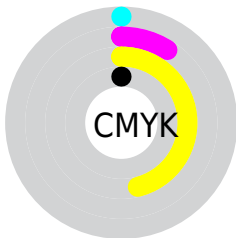
Blue (54%)



Red (66%)

Yellow (100%)

Blue (54%)

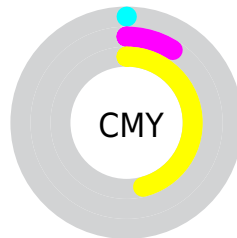


Cyan (0%)

Magenta (9%)

Yellow (46%)

Black (0%)



Cyan (0%)

Magenta (9%)


Yellow (46%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 74.4034, 80.2468, 35.6125 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 74.4034, 80.2468, 35.6125 by changing the saturation by 10% instead.




 74.4034, 80.2468,  
35.6125


 74.4034, 80.2468,  
35.6125


464.8933,  
495.7642, 342.2497


 55.4167, 59.9215,  
23.8478


 124.4599,  
133.7127, 69.5958

 39.9706, 43.3553,  
15.0096


 156.2605,  
167.6220, 92.6515

 27.6997, 30.1640,  
8.6794


 193.0630,  
206.8281, 120.3079

 18.2387, 19.9631,  
4.4387

235.2329,  
251.7154, 152.9836

 11.2223, 12.3682,  
1.8690

283.1356,  
302.6682, 191.0971

 6.2849, 6.9950,  
0.4729

337.1363,

 3.0614, 3.4590,

360.0710, 235.0669

0.0000

397.6004,  
424.3082, 285.3116

■ 1.1863, 1.3758,  
0.0000

■ 0.0955, 0.1988,  
0.0000

■ 74.4034, 80.2468,  
35.6125

■ 74.4034, 80.2468,  
35.6125

■ 71.3285, 76.7126,  
26.5240

■ 77.9594, 84.0493,  
47.0012

■ 68.6976, 73.4225,  
19.5686

■ 82.0188, 88.1207,  
60.8318

■ 66.4774, 70.3655,  
14.5644

■ 86.6094, 92.4758,  
77.2403

■ 64.6270, 67.5244,  
11.2966

■ 91.7552, 97.1247,  
96.3511

■ 63.0952, 64.8784, 95.0500, 100.0000,  
9.4990 108.9000

■ 62.5264, 63.8329,  
9.0255

# Harmonies

## Analogous

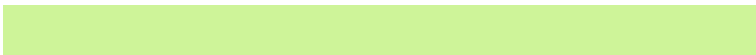
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



86.9348, 80.2468, 39.2374



74.4034, 80.2468, 35.6125



63.5842, 80.2468, 42.4878

# Triad

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



74.4034, 80.2468, 35.6125



58.3424, 80.2468, 131.8882



99.7806, 80.2468, 119.9675

# Complementary

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



74.4034, 80.2468, 35.6125



41.4513, 38.4628, 99.8470

# 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.



90.5448, 80.2468, 156.1887



74.4034, 80.2468, 35.6125



66.5191, 80.2468, 164.2726

# Square

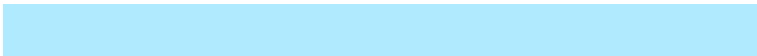
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



74.4034, 80.2468, 35.6125



54.9697, 80.2468, 92.8833



78.1720, 80.2468, 174.1877



102.4701, 80.2468, 82.0891

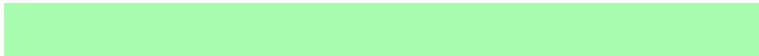


# Rectangle

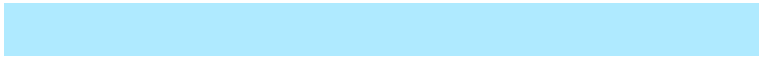
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



74.4034, 80.2468, 35.6125



58.5206, 80.2468, 53.5772



78.1720, 80.2468, 174.1877



97.2932, 80.2468, 133.0370

# Sweetspot

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



74.4054, 80.2505, 35.6141



87.5345, 93.3277, 80.6256



56.9713, 42.0947, 39.9384



18.5093, 19.7670, 16.4279



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

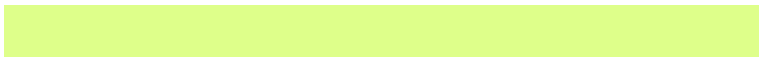
The Same Dimension uses a secret algorithm to generate beautiful new colors.



74.4054, 80.2505, 35.6141



71.5813, 77.0143, 27.2368



70.4261, 88.8610, 37.4859



19.2263, 20.4208, 19.0726



32.7818, 33.5748, 4.7528



3.2679, 3.4211, 0.4881



# Inverse Universe

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



41.4513, 38.4628, 99.8470



34.9869, 30.6469, 98.6792



43.9666, 34.0728, 98.8670



17.3047, 17.9810, 22.8086



10.1643, 5.2382, 49.9099



1.0632, 0.6571, 4.8841



# Previews

## White Background



This preview shows how the XYZ color 74.4034, 80.2468, 35.6125 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

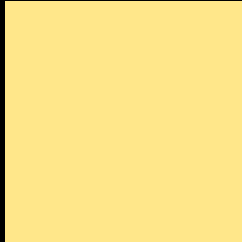
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 74.4034, 80.2468, 35.6125 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 74.4034, 80.2468, 35.6125**

## **Background**



This preview shows how black text looks on a background with the XYZ color 74.4034, 80.2468, 35.6125.



This preview shows how white text looks on a background with the XYZ color 74.4034, 80.2468,

35.6125.

# 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

74.4034, 80.2468, 35.6125

### Protanopia

73.9521, 80.4309, 35.6718

### Deuteranopia

78.7871, 80.2294, 64.1566



## Tritanopia

82.6231, 80.0335, 89.6906

# Trichromacy



## Original Color

74.4034, 80.2468, 35.6125

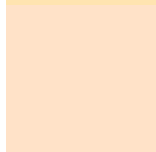
## Protanomaly

74.3171, 80.6190, 35.6889



## Deuteranomaly

76.8199, 79.8814, 52.4441



## Tritanomaly

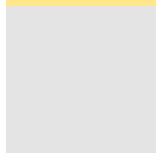
78.8617, 79.8228, 65.8945

# Monochromacy



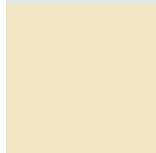
## Original Color

74.4034, 80.2468, 35.6125



## Achromatopsia

73.7419, 77.5822, 84.4870



## Achromatomaly

73.1295, 78.1559, 62.8610

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 74.4034, 80.2468, 35.6125 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, 231, 138)` looks like.

```
.text, #text, p{  
    color:rgb(255, 231, 138)  
}
```

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, 231, 138) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 231, 138) }
```

## Border

The CSS property to change the border of an element to XYZ 74.4034, 80.2468, 35.6125 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, 231, 138) }
```



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

```
.border{ border-color:rgb(255, 231, 138) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 231, 138)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 231, 138); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 231, 138);  
box-shadow:4px 4px 4px 4px rgb(255, 231,  
138) }
```

# Background

The CSS property to change the background color of an element to XYZ 74.4034, 80.2468, 35.6125 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 231, 138) }
```

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

```
.background{ background-color: rgb(255,  
231, 138) }
```

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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