

# Converting Colors

XYZ(97.7644, 100.0000,  
40.5903)

Have a look what the booklet for  
XYZ(97.7644, 100.0000, 40.5903)  
contains.

<b>XYZ(80.1497, 91.0250, 39.7308)</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(80.1497, 91.0250,  
39.7308)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFF990
RGB	255, 249, 144
RGB Percent	100%, 98%, 56%
CMY	0.0000, 0.0235, 0.4353
CMYK	0.00, 0.02, 0.44, 0.00
HSL	57°, 100%, 78%
HSV	57°, 44%, 100%
XYZ	80.1497, 91.0250, 39.7308
YIQ	238.8240, 37.2810, -31.3830

# Conversions

## Conversions Part 2

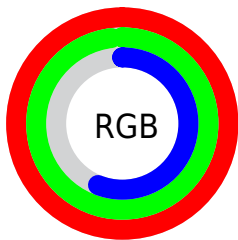
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	150, 255, 144
Decimal	16775568
CIE Lab	96.42, -12.19, 50.91
CIE LCh	96, 52.350, 103.466
Yxy	91.0250, 0.3800, 0.4316
Android (android.graphics.Color)	4294965648 (0xFFFFF990)
YUV	238.8240, -46.7482, 14.1864
Hunter-Lab	95.4070, -17.0077, 42.0945

# Details

The XYZ color **80.1497, 91.0250, 39.7308** is a light color, and the websafe version is hex **FFFF99**. A complement of this color would be **40.4578, 34.9609, 99.2232**, and the grayscale version is **82.2411, 86.5240, 94.2246**.

A 20% lighter version of the original color is **87.3088, 96.9035, 68.1354**, and **43.7232, 50.6310, 17.3658** is the 20% darker color. If you saturate the color by 10%, you get **77.9936, 89.4874, 30.4588**, and if you desaturate by 10%, it is **82.7535, 92.7533, 51.3257**.

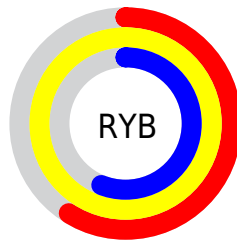
# Distribution



Red (100%)

Green (98%)

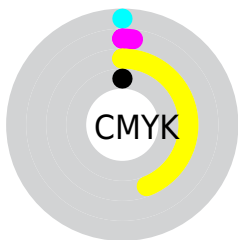
Blue (56%)



Red (59%)

Yellow (100%)

Blue (56%)

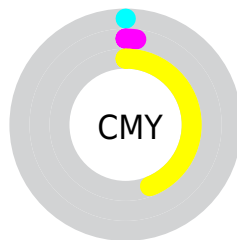


Cyan (0%)

Magenta (2%)

Yellow (44%)

Black (0%)



Cyan (0%)

Magenta (2%)

Yellow (44%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 80.1497, 91.0250, 39.7308 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 80.1497, 91.0250, 39.7308 by changing the saturation by 10% instead.





 80.1497, 91.0250,  
39.7308


 80.1497, 91.0250,  
39.7308


484.1660,  
531.3595, 360.5059

 60.1504, 68.8311,  
27.0165


 132.5256,  
148.7613, 75.9860

 43.7898, 50.5742,  
17.3531


 165.6330,  
185.0726, 100.3640

 30.7025, 35.8698,  
10.3219

203.8404,  
226.8584, 129.4670

 20.5231, 24.3337,  
5.5045

247.5132,  
274.5031, 163.7136

 12.8864, 15.5813,  
2.4824

297.0169,  
328.3912, 203.5222

 7.4268, 9.2284,  
0.8308

352.7166,

 3.7791, 4.8904,

388.9070, 249.3114

0.0000

414.9779,  
456.4350, 301.4998

■ 1.5779, 2.1831,  
0.0000

■ 0.3780, 0.7108,  
0.0000

■ 80.1497, 91.0250,  
39.7308

■ 80.1497, 91.0250,  
39.7308

■ 77.9936, 89.4874,  
30.4588

■ 82.7535, 92.7533,  
51.3257

■ 76.2486, 88.1160,  
23.3460

■ 85.8257, 94.6706,  
65.3812

■ 74.8832, 86.9013,  
18.2165

■ 89.3935, 96.7911,  
82.0309

■ 73.8582, 85.8277,  
14.8645

■ 93.4800, 99.1242,  
101.3970

■ 73.1259, 84.8762,  
13.0388

95.0499, 99.9999,  
108.9000

■ 72.7638, 84.3078,  
12.4380

# Harmonies

## Analogous

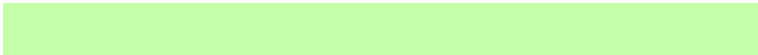
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



94.7440, 91.0250, 40.3388



80.1497, 91.0250, 39.7308



68.6251, 91.0250, 51.5056

# Triad

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



80.1497, 91.0250, 39.7308



67.7196, 91.0250, 165.2542



116.2772, 91.0250, 123.7654

# Complementary

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



80.1497, 91.0250, 39.7308



40.4578, 34.9609, 99.2232

# 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.



107.2751, 91.0250, 169.5655



80.1497, 91.0250, 39.7308



78.7797, 91.0250, 197.7476

# Square

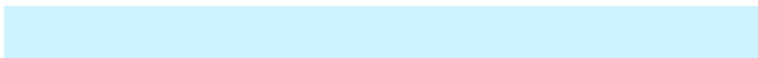
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



80.1497, 91.0250, 39.7308



62.0120, 91.0250, 119.0122



93.2119, 91.0250, 199.5162

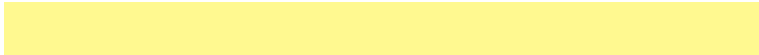


116.7510, 91.0250, 81.5616

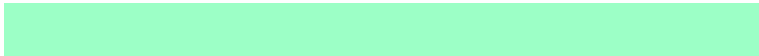


# Rectangle

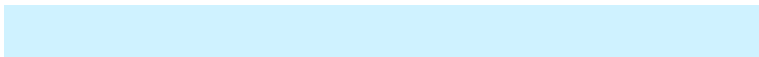
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



80.1497, 91.0250, 39.7308



63.7765, 91.0250, 67.3909



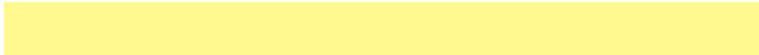
93.2119, 91.0250, 199.5162



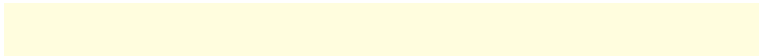
114.1060, 91.0250, 139.4872

# Sweetspot

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



80.1519, 91.0292, 39.7327



89.5964, 96.9092, 82.9850



56.8323, 43.4548, 34.8422



18.9981, 20.6380, 16.9197



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

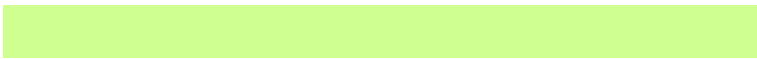
The Same Dimension uses a secret algorithm to generate beautiful new colors.



80.1519, 91.0292, 39.7327



78.2961, 89.7119, 31.7321



66.4987, 86.7847, 39.6330



19.4723, 20.9127, 19.1546



38.0572, 44.1257, 6.5113



3.7302, 4.3457, 0.6422



# Inverse Universe

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



40.4578, 34.9609, 99.2232



34.0569, 27.2351, 98.0696



49.7876, 38.3871, 99.3928



17.0817, 17.5350, 22.7342



9.5436, 3.9968, 49.7030

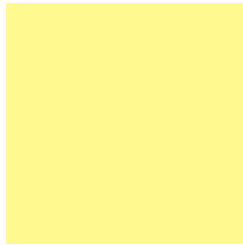


0.9557, 0.4420, 4.8482



# Previews

## White Background



This preview shows how the XYZ color 80.1497, 91.0250, 39.7308 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 80.1497, 91.0250, 39.7308 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

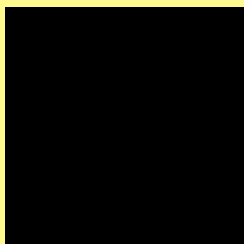
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 80.1497, 91.0250, 39.7308**

## **Background**



This preview shows how black text looks on a background with the XYZ color 80.1497, 91.0250, 39.7308.



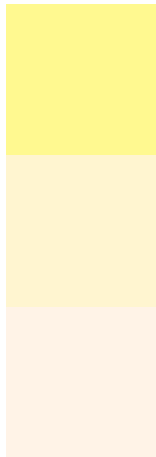
This preview shows how white text looks on a background with the XYZ color 80.1497, 91.0250,

39.7308.

# 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

80.1497, 91.0250, 39.7308

### Protanopia

85.2776, 91.1189, 72.7676

### Deuteranopia

87.7144, 91.1307, 88.5682



## Tritanopia

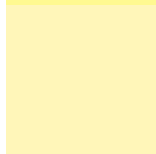
89.7942, 91.0101, 102.4566

# Trichromacy



## Original Color

80.1497, 91.0250, 39.7308



## Protanomaly

82.9527, 90.6743, 59.0288



## Deuteranomaly

84.2012, 90.6883, 67.0996



## Tritanomaly

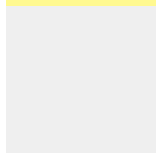
85.3486, 90.6645, 74.6297

# Monochromacy



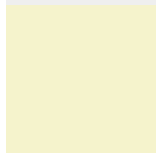
## Original Color

80.1497, 91.0250, 39.7308



## Achromatopsia

82.0431, 86.3157, 93.9978



## Achromatomaly

80.6059, 87.8733, 69.8396

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 80.1497, 91.0250, 39.7308 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, 249, 144)` looks like.

```
.text, #text, p{  
    color:rgb(255, 249, 144)  
}
```

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, 249, 144) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 249, 144) }
```

## Border

The CSS property to change the border of an element to XYZ 80.1497, 91.0250, 39.7308 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, 249, 144) }
```



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

```
.border{ border-color:rgb(255, 249, 144) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 249, 144)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(255, 249, 144); -webkit-box-shadow:4px 4px 4px 4px rgb(255, 249, 144); box-shadow:4px 4px 4px 4px rgb(255, 249, 144) }
```

# Background

The CSS property to change the background color of an element to XYZ 80.1497, 91.0250, 39.7308 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 249, 144) }
```

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

```
.background{ background-color: rgb(255,  
249, 144) }
```

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