

# Converting Colors

XYZ(48.9143, 77.8011, 35.1322)

Have a look what the booklet for  
XYZ(48.9143, 77.8011, 35.1322)  
contains.

<b>XYZ(48.8155, 77.7533, 34.9893)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(48.8155, 77.7533,  
34.9893)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7FFF86
RGB	127, 255, 134
RGB Percent	50%, 100%, 53%
CMY	0.5020, 0.0000, 0.4745
CMYK	0.50, 0.00, 0.47, 0.00
HSL	123°, 100%, 75%
HSV	123°, 50%, 100%
XYZ	48.8155, 77.7533, 34.9893
YIQ	202.9340, -37.4470, -64.7670

# Conversions

## Conversions Part 2

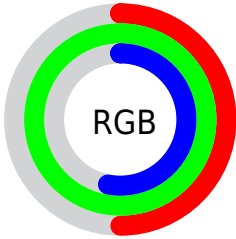
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">127, 248, 255</a>
Decimal	<a href="#">8388486</a>
<a href="#">CIELab</a>	<a href="#">90.67, -59.36, 46.92</a>
<a href="#">CIELCh</a>	<a href="#">91, 75.662, 141.676</a>
<a href="#">Yxy</a>	<a href="#">77.7533, 0.3022, 0.4813</a>
<a href="#">Android (android.graphics.Color)</a>	<a href="#">4286578566 (0xFF7FFF86)</a>
<a href="#">YUV</a>	<a href="#">202.9340, -33.9845, -66.5941</a>
<a href="#">Hunter-Lab</a>	<a href="#">88.1778, -55.4931, 38.1980</a>

# Details

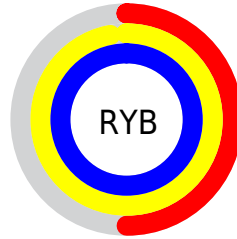
The XYZ color **48.8155, 77.7533, 34.9893** is a light color, and the websafe version is hex **66FF99**. A complement of this color would be **65.7724, 43.2162, 93.6801**, and the grayscale version is **56.9467, 59.9123, 65.2445**.

A 20% lighter version of the original color is **65.4388, 85.7589, 61.2483**, and **23.5014, 41.5833, 14.5723** is the 20% darker color. If you saturate the color by 10%, you get **43.9920, 75.4393, 26.9655**, and if you desaturate by 10%, it is **54.9838, 80.7162, 45.0785**.

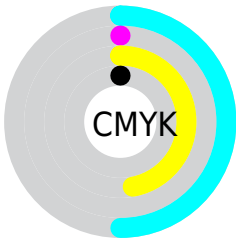
# Distribution



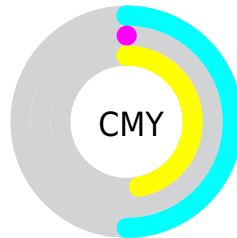
- Red (50%)
- Green (100%)
- Blue (53%)



- Red (50%)
- Yellow (97%)
- Blue (100%)



- Cyan (50%)
- Magenta (0%)
- Yellow (47%)
- Black (0%)




- Cyan (50%)
- Magenta (0%)
- Yellow (47%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.8155, 77.7533, 34.9893 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 48.8155, 77.7533, 34.9893 by changing the saturation by 10% instead.




 48.8155, 77.7533,  
34.9893


 48.8155, 77.7533,  
34.9893


372.5445,  
487.3286, 339.4239


 34.6871, 57.8713,  
23.3711


 87.6197, 130.2023,  
68.6206

 23.5873, 41.7052,  
14.6599


 113.0263,  
163.5381, 91.4708

 15.1508, 28.8705,  
8.4371


 142.9229,  
202.1274, 118.9021

 9.0123, 18.9829,  
4.2841

177.6749,  
246.3544, 151.3330

 4.8064, 11.6579,  
1.7825

217.6478,  
296.6037, 189.1821

 2.1677, 6.5112,  
0.4164


263.2067,


 0.7256, 3.1583,


353.2595, 232.8680


0.0000


314.7172,  
416.7064, 282.8090


 0.0000, 1.2150,  
0.0000


 0.0000, 0.0739,  
0.0000


 48.8155, 77.7533,  
34.9893


 48.8155, 77.7533,  
34.9893


 43.9920, 75.4393,  
26.9655

 54.9838, 80.7162,  
45.0785


 40.4120, 73.7251,  
20.8609


 62.5859, 84.3713,  
57.3583

 37.9612, 72.5553,  
16.5165

 71.7046, 88.7587,  
71.9484

 36.5041, 71.8640,  
13.7458

 82.4159, 93.9152,  
88.9587

 35.8389, 71.5516,  
12.3356

94.7908, 99.8752,  
108.4920

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.



61.2289, 77.7533, 19.9512



48.8155, 77.7533, 34.9893



43.3608, 77.7533, 70.4155

# Triad

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



48.8155, 77.7533, 34.9893



68.7448, 77.7533, 235.8480



113.2567, 77.7533, 51.6339

# Complementary

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



48.8155, 77.7533, 34.9893



65.7724, 43.2162, 93.6801

# 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.



116.2002, 77.7533, 100.7069



48.8155, 77.7533, 34.9893



88.2137, 77.7533, 223.6171

# Square

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



48.8155, 77.7533, 34.9893



53.5076, 77.7533, 195.9383



106.3795, 77.7533, 167.3926



98.9144, 77.7533, 26.2973



# Rectangle

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



48.8155, 77.7533, 34.9893



43.6210, 77.7533, 107.6153



106.3795, 77.7533, 167.3926



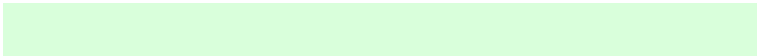
115.6999, 77.7533, 65.2260

# Sweetspot

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



48.8159, 77.7534, 34.9905



77.0665, 91.3396, 80.4776



78.5153, 93.1187, 33.9145



16.0185, 19.3209, 16.4677



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

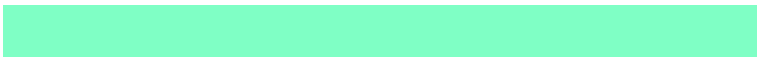
The Same Dimension uses a secret algorithm to generate beautiful new colors.



48.8159, 77.7534, 34.9905



44.0742, 75.4786, 27.1036



54.6366, 80.0817, 65.6419



17.8118, 20.1843, 19.3122



18.7427, 37.3937, 6.5304



1.8384, 3.6463, 0.7071



# Inverse Universe

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



65.7724, 43.2162, 93.6801



62.7228, 37.4553, 91.6204



57.5444, 39.9250, 50.3516



18.7472, 18.2822, 22.5520



29.8675, 14.4363, 44.8142

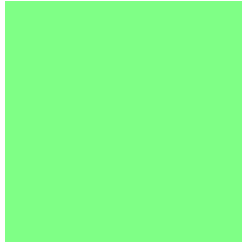


2.9207, 1.4107, 4.4298



# Previews

## White Background



This preview shows how the XYZ color 48.8155, 77.7533, 34.9893 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 48.8155, 77.7533, 34.9893 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 48.8155, 77.7533, 34.9893**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.8155, 77.7533, 34.9893.



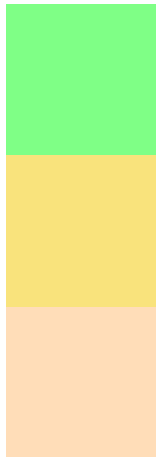
This preview shows how white text looks on a background with the XYZ color 48.8155, 77.7533,



# 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

48.8155, 77.7533, 34.9893

### Protanopia

70.1741, 76.5331, 30.1426

### Deuteranopia

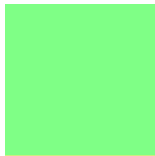
75.7482, 76.4336, 56.1082



## Tritanopia

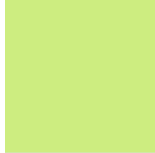
65.2787, 77.3880, 106.1046

# Trichromacy



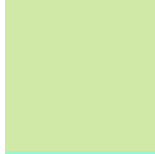
## Original Color

48.8155, 77.7533, 34.9893



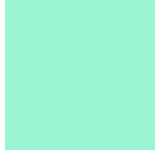
## Protanomaly

59.3573, 75.1060, 31.7905



## Deuteranomaly

62.0343, 74.4409, 47.1754



## Tritanomaly

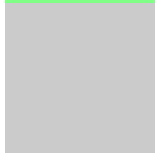
57.7367, 76.8780, 73.4239

# Monochromacy



## Original Color

48.8155, 77.7533, 34.9893



## Achromatopsia

56.7640, 59.7202, 65.0353



## Achromatomaly

51.8364, 64.5709, 51.8508

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.8155, 77.7533, 34.9893 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(127, 255, 134)` looks like.

```
.text, #text, p{  
    color:rgb(127, 255, 134)  
}
```

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(127, 255, 134) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(127, 255, 134) }
```

## Border

The CSS property to change the border of an element to XYZ 48.8155, 77.7533, 34.9893 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(127, 255, 134) }
```



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

```
.border{ border-color:rgb(127, 255, 134) }
```

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

Here you see how a box with a 4 pixel `rgb(127, 255, 134)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(127, 255, 134); -webkit-box-  
shadow:4px 4px 4px 4px rgb(127, 255, 134);  
box-shadow:4px 4px 4px 4px rgb(127, 255,  
134) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.8155, 77.7533, 34.9893 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(127, 255, 134) }
```

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

```
.background{ background-color: rgb(127,  
255, 134) }
```

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