

# Converting Colors

XYZ(48.2606, 76.9135, 49.5576)

Have a look what the booklet for  
XYZ(48.2606, 76.9135, 49.5576)  
contains.

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# Color

**XYZ(48.4214, 77.2307,  
49.4007)**

# Conversions

## Conversions Part 1

Format	Color
Hex	67FFA8
RGB	103, 255, 168
RGB Percent	40%, 100%, 66%
CMY	0.5961, 0.0000, 0.3412
CMYK	0.60, 0.00, 0.34, 0.00
HSL	146°, 100%, 70%
HSV	146°, 60%, 100%
XYZ	48.4214, 77.2307, 49.4007
YIQ	199.6340, -62.6650, -59.2810

# Conversions

## Conversions Part 2

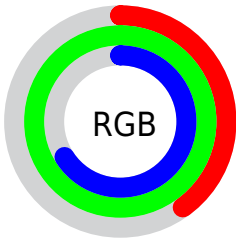
Format	Color
<a href="#">RYB</a>	<a href="#">103, 209, 255</a>
Decimal	<a href="#">6815656</a>
CIELab	<a href="#">90.43, -59.41, 29.81</a>
CIELCh	<a href="#">90, 66.468, 153.349</a>
Yxy	<a href="#">77.2307, 0.2766, 0.4412</a>
Android (android.graphics.Color)	<a href="#">4285005736 (0xFF67FFA8)</a>
YUV	<a href="#">199.6340, -15.5956, -84.7480</a>
Hunter-Lab	<a href="#">87.8810, -55.4403, 28.1879</a>

# Details

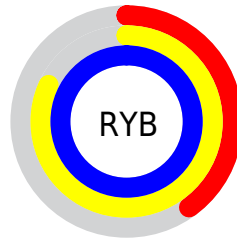
The XYZ color **48.4214, 77.2307, 49.4007** is a light color, and the websafe version is hex **66FF99**. A complement of this color would be **55.3849, 34.6788, 52.4900**, and the grayscale version is **54.7951, 57.6488, 62.7795**.

A 20% lighter version of the original color is **64.7316, 84.9012, 83.4969**, and **23.2919, 41.2895, 22.9617** is the 20% darker color. If you saturate the color by 10%, you get **44.6448, 75.4322, 42.5205**, and if you desaturate by 10%, it is **53.2434, 79.5505, 57.1291**.

# Distribution



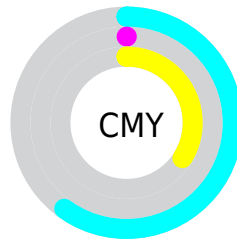
- Red (40%)
- Green (100%)
- Blue (66%)



- Red (40%)
- Yellow (82%)
- Blue (100%)



- Cyan (60%)
- Magenta (0%)
- Yellow (34%)
- Black (0%)




- Cyan (60%)
- Magenta (0%)
- Yellow (34%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.4214, 77.2307, 49.4007 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 48.4214, 77.2307, 49.4007 by changing the saturation by 10% instead.





 48.4214, 77.2307,  
49.4007


 48.4214, 77.2307,  
49.4007


371.0149,  
485.5502, 400.9854


 34.3734, 57.4422,  
34.5696


 87.0374, 129.4651,  
90.6734

 23.3448, 41.3604,  
23.0506


 112.3361,  
162.6798, 117.9521

 14.9704, 28.6008,  
14.4252


 142.1157,  
201.1387, 150.2172

 8.8848, 18.7790,  
8.2749

176.7415,  
245.2262, 187.8870

 4.7226, 11.5107,  
4.1811

216.5790,  
295.3268, 231.3802

 2.1185, 6.4115,  
1.7252

261.9935,

 0.6993, 3.0969,

351.8247, 281.1153

0.3779

313.3504,  
415.1044, 337.5108

■ 0.0000, 1.1825,  
0.0000

■ 0.0000, 0.0473,  
0.0000

■ 48.4214, 77.2307,  
49.4007

■ 48.4214, 77.2307,  
49.4007

■ 44.6448, 75.4322,  
42.5205

■ 53.2434, 79.5505,  
57.1291

■ 41.8228, 74.1087,  
36.4543

■ 59.1872, 82.4304,  
65.7305

■ 39.8508, 73.2070,  
31.1707

■ 66.3239, 85.9065,  
75.2334

■ 38.5665, 72.6440,  
26.6331

■ 74.7178, 90.0116,  
85.6637

■ 38.5229, 72.6251,  
26.4691

■ 84.4288, 94.7759,  
97.0462

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.



57.2248, 77.2307, 28.5248



48.4214, 77.2307, 49.4007



45.9375, 77.2307, 89.5429

# Triad

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



48.4214, 77.2307, 49.4007



75.2852, 77.2307, 212.2809



103.4154, 77.2307, 43.1951

# Complementary

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



48.4214, 77.2307, 49.4007



55.3849, 34.6788, 52.4900

# 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.



110.0882, 77.2307, 78.8653



48.4214, 77.2307, 49.4007



92.3805, 77.2307, 185.8529

# Square

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



48.4214, 77.2307, 49.4007



60.0031, 77.2307, 195.0579



105.7755, 77.2307, 132.1017



88.6683, 77.2307, 26.0064



# Rectangle

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



48.4214, 77.2307, 49.4007



47.8349, 77.2307, 125.7563



105.7755, 77.2307, 132.1017



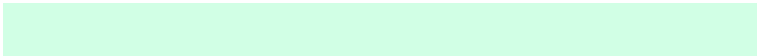
106.7700, 77.2307, 52.8247

# Sweetspot

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



48.4220, 77.2310, 49.4020



76.1878, 90.7319, 87.4276



59.8626, 83.6625, 25.8261



15.7428, 19.1438, 18.0332



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.



48.4220, 77.2310, 49.4020



43.8861, 75.0740, 40.9956



57.4310, 80.8346, 96.8430



18.0940, 20.2971, 20.7978



20.2002, 37.9767, 14.2055



2.0202, 3.7190, 1.6642



# Inverse Universe

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



55.3849, 34.6788, 52.4900



51.4034, 28.9714, 44.2096



49.2237, 32.2144, 20.0460



18.4451, 18.1614, 20.9612



24.3342, 12.2230, 15.6761

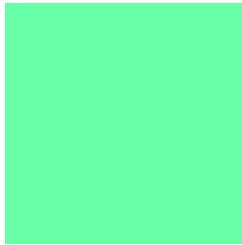


2.4241, 1.2120, 1.8146



# Previews

## White Background



This preview shows how the XYZ color 48.4214, 77.2307, 49.4007 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 48.4214, 77.2307, 49.4007 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 48.4214, 77.2307, 49.4007**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.4214, 77.2307, 49.4007.



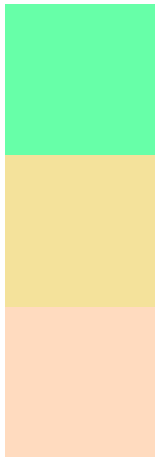
This preview shows how white text looks on a background with the XYZ color 48.4214, 77.2307,



# 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

48.4214, 77.2307, 49.4007

### Protanopia

70.4210, 75.9924, 41.9668

### Deuteranopia

75.9755, 75.6846, 59.8945



## Tritanopia

63.2146, 76.3239, 106.0080

# Trichromacy



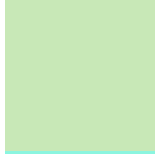
## Original Color

48.4214, 77.2307, 49.4007



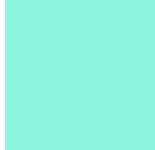
## Protanomaly

58.6217, 74.4439, 44.5371



## Deuteranomaly

61.2233, 73.4115, 55.7428



## Tritanomaly

56.6192, 76.1215, 81.5208

# Monochromacy



## Original Color

48.4214, 77.2307, 49.4007



## Achromatopsia

54.8990, 57.7580, 62.8985



## Achromatomaly

50.1874, 62.8166, 57.0566

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.4214, 77.2307, 49.4007 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(103, 255, 168)` looks like.

```
.text, #text, p{  
    color:rgb(103, 255, 168)  
}
```

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(103, 255, 168) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(103, 255, 168) }
```

## Border

The CSS property to change the border of an element to XYZ 48.4214, 77.2307, 49.4007 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(103, 255, 168) }
```



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

```
.border{ border-color:rgb(103, 255, 168) }
```

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

Here you see how a box with a 4 pixel `rgb(103, 255, 168)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(103, 255, 168); -webkit-box-  
shadow:4px 4px 4px 4px rgb(103, 255, 168);  
box-shadow:4px 4px 4px 4px rgb(103, 255,  
168) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.4214, 77.2307, 49.4007 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(103, 255, 168) }
```

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

```
.background{ background-color: rgb(103,  
255, 168) }
```

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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