

# Converting Colors

XYZ(44.7803, 66.7609, 48.9005)

Have a look what the booklet for  
XYZ(44.7803, 66.7609, 48.9005)  
contains.

<b>XYZ(44.8174, 66.7827, 49.0563)</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(44.8174, 66.7827,  
49.0563)**

# Conversions

## Conversions Part 1

Format	Color
Hex	76ECAB
RGB	118, 236, 171
RGB Percent	46%, 93%, 67%
CMY	0.5372, 0.0745, 0.3294
CMYK	0.50, 0.00, 0.28, 0.07
HSL	147°, 76%, 69%
HSV	147°, 50%, 93%
XYZ	44.8174, 66.7827, 49.0563
YIQ	193.3080, -49.4630, -45.2310

# Conversions

## Conversions Part 2

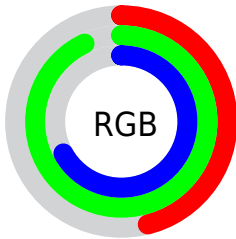
Format	Color
<a href="#">RYB</a>	<a href="#">118, 199, 236</a>
Decimal	<a href="#">7793835</a>
CIELab	<a href="#">85.39, -47.87, 21.49</a>
CIELCh	<a href="#">85, 52.477, 155.821</a>
Yxy	<a href="#">66.7827, 0.2790, 0.4157</a>
Android (android.graphics.Color)	<a href="#">4285983915 (0xFF76ECAB)</a>
YUV	<a href="#">193.3080, -10.9978, -66.0451</a>
Hunter-Lab	<a href="#">81.7207, -45.1179, 21.6131</a>

# Details

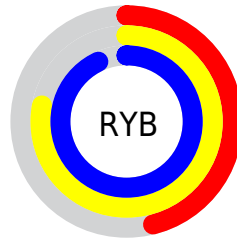
The XYZ color **44.8174, 66.7827, 49.0563** is a light color, and the websafe version is hex **66FFCC**. A complement of this color would be **49.6200, 34.2103, 48.7905**, and the grayscale version is **50.9549, 53.6085, 58.3797**.

A 20% lighter version of the original color is **67.5296, 86.2962, 85.7707**, and **21.0775, 34.4181, 22.6720** is the 20% darker color. If you saturate the color by 10%, you get **40.8258, 64.8630, 42.7166**, and if you desaturate by 10%, it is **49.7361, 69.1699, 56.0786**.

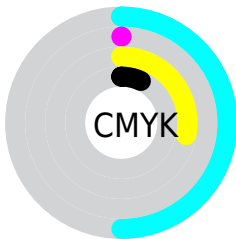
# Distribution



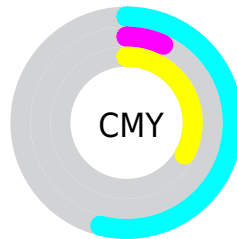
- Red (46%)
- Green (93%)
- Blue (67%)



- Red (46%)
- Yellow (78%)
- Blue (93%)



- Cyan (50%)
- Magenta (0%)
- Yellow (28%)
- Black (7%)



- Cyan (54%)
- Magenta (7%)
- Yellow (33%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 44.8174, 66.7827, 49.0563 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 44.8174, 66.7827, 49.0563 by changing the saturation by 10% instead.




 44.8174, 66.7827,  
49.0563


 44.8174, 66.7827,  
49.0563


356.8297,  
449.1709, 399.5928


 31.5143, 48.9081,  
34.2982


 81.6851, 114.6090,  
90.1569

 21.1445, 34.5465,  
22.8436

 105.9804,  
145.3294, 117.3365

 13.3427, 23.3138,  
14.2738


 134.6704,  
181.1006, 149.4938

 7.7436, 14.8254,  
8.1704


168.1206,  
222.3068, 187.0471

 3.9817, 8.6969,  
4.1149

206.6963,  
269.3326, 230.4152

 1.6918, 4.5440,  
1.6886

250.7628,

 0.4511, 1.9823,

322.5623, 280.0164

0.3529

300.6854,  
382.3802, 336.2694

■ 0.0000, 0.5972,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 44.8174, 66.7827,  
49.0563

■ 44.8174, 66.7827,  
49.0563

■ 40.8258, 64.8630,  
42.7166

■ 49.7361, 69.1699,  
56.0786

■ 37.6916, 63.3698,  
37.0336


■ 55.6346, 72.0459,  
63.7992


■ 35.3432, 62.2684,  
31.9863


■ 62.5677, 75.4404,  
72.2390

■ 33.6937, 61.5146,  
27.5505


■ 70.5847, 79.3785,  
81.4164

 32.5982, 61.0339,  
23.6982

 79.7314, 83.8834,  
91.3493

 32.5981, 61.0339,  
23.6981

 88.3363, 88.0932,  
101.9746

 89.2866, 88.4733,  
106.9789

# Harmonies

## Analogous

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



51.0115, 66.7827, 31.4932



44.8174, 66.7827, 49.0563



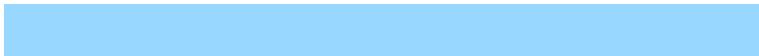
43.3369, 66.7827, 79.5607

# Triad

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



44.8174, 66.7827, 49.0563



65.8223, 66.7827, 159.2523



83.8786, 66.7827, 40.7292

# Complementary

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



44.8174, 66.7827, 49.0563



49.6200, 34.2103, 48.7905

# 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.



89.0474, 66.7827, 66.2737



44.8174, 66.7827, 49.0563



77.8192, 66.7827, 139.7848

# Square

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



44.8174, 66.7827, 49.0563



54.5628, 66.7827, 150.3063



86.7023, 66.7827, 102.9691



73.3083, 66.7827, 27.8424



# Rectangle

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



44.8174, 66.7827, 49.0563



45.0373, 66.7827, 105.1288



86.7023, 66.7827, 102.9691



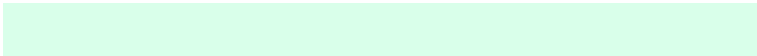
86.3618, 66.7827, 47.7596

# Sweetspot

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



44.8192, 66.7854, 49.0578



79.1422, 92.1699, 91.4082



53.2432, 71.5995, 28.1544



16.5134, 19.5188, 19.0739



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.



44.8192, 66.7854, 49.0578



48.5634, 77.2743, 50.7435



51.4910, 69.4541, 84.1910



15.1495, 16.9746, 17.4703



18.0312, 33.6669, 13.3951



1.4637, 2.6628, 1.3038



# Inverse Universe

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



49.6200, 34.2103, 48.7905



54.8843, 34.3199, 50.3431



44.8297, 32.2942, 23.5652



15.4127, 15.1929, 17.4586



21.3551, 10.7447, 12.9374

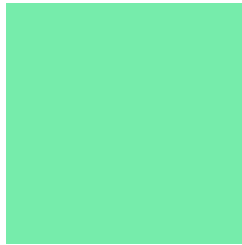


1.7253, 0.8631, 1.2706



# Previews

## White Background



This preview shows how the XYZ color 44.8174, 66.7827, 49.0563 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

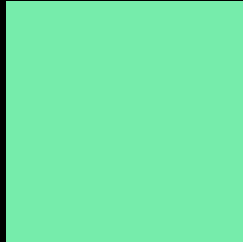
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 44.8174, 66.7827, 49.0563 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

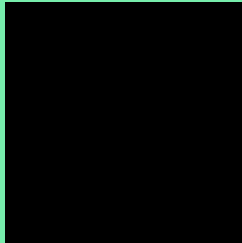
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 44.8174, 66.7827, 49.0563**

## **Background**



This preview shows how black text looks on a background with the XYZ color 44.8174, 66.7827, 49.0563.



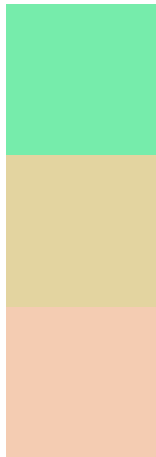
This preview shows how white text looks on a background with the XYZ color 44.8174, 66.7827,



# 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

44.8174, 66.7827, 49.0563

### Protanopia

61.5672, 65.9559, 42.7435

### Deuteranopia

66.9370, 65.6332, 51.2600



## Tritanopia

53.9943, 66.3036, 96.3383

# Trichromacy



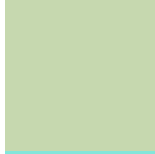
## Original Color

44.8174, 66.7827, 49.0563



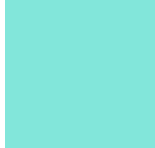
## Protanomaly

53.0508, 64.9580, 44.8640



## Deuteranomaly

55.5824, 64.2126, 50.0222



## Tritanomaly

50.1576, 66.4014, 76.5028

# Monochromacy



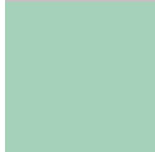
## Original Color

44.8174, 66.7827, 49.0563



## Achromatopsia

50.6879, 53.3276, 58.0738



## Achromatomaly

47.2833, 57.2107, 54.4496

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 44.8174, 66.7827, 49.0563 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(118, 236, 171)` looks like.

```
.text, #text, p{  
    color:rgb(118, 236, 171)  
}
```

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(118, 236, 171) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(118, 236, 171) }
```

## Border

The CSS property to change the border of an element to XYZ 44.8174, 66.7827, 49.0563 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(118, 236, 171) }
```



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

```
.border{ border-color:rgb(118, 236, 171) }
```

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

Here you see how a box with a 4 pixel `rgb(118, 236, 171)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(118, 236, 171); -webkit-box-shadow:4px 4px 4px 4px rgb(118, 236, 171); box-shadow:4px 4px 4px 4px rgb(118, 236, 171) }
```

# Background

The CSS property to change the background color of an element to XYZ 44.8174, 66.7827, 49.0563 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(118, 236, 171) }
```

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

```
.background{ background-color: rgb(118,  
236, 171) }
```

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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