

# Converting Colors

XYZ(48.9766, 78.0477, 25.4482)

Have a look what the booklet for  
XYZ(48.9766, 78.0477, 25.4482)  
contains.

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# Color

**XYZ(49.0739, 78.0949,  
25.5841)**

# Conversions

## Conversions Part 1

Format	Color
Hex	8CFF68
RGB	140, 255, 104
RGB Percent	55%, 100%, 41%
CMY	0.4510, 0.0000, 0.5921
CMYK	0.45, 0.00, 0.59, 0.00
HSL	106°, 100%, 70%
HSV	106°, 59%, 100%
XYZ	49.0739, 78.0949, 25.5841
YIQ	203.4010, -20.0690, -71.3410

# Conversions

## Conversions Part 2

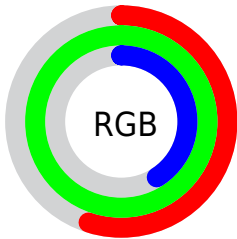
Format	Color
<a href="#">RYB</a>	<a href="#">104, 255, 219</a>
Decimal	<a href="#">9240424</a>
CIELab	<a href="#">90.82, -59.33, 60.76</a>
CIELCh	<a href="#">91, 84.921, 134.314</a>
Yxy	<a href="#">78.0949, 0.3213, 0.5112</a>
Android (android.graphics.Color)	<a href="#">4287430504</a> ( <a href="#">0xFF8CFF68</a> )
YUV	<a href="#">203.4010, -49.0047, -55.6027</a>
Hunter-Lab	<a href="#">88.3713, -55.5261, 44.6951</a>

# Details

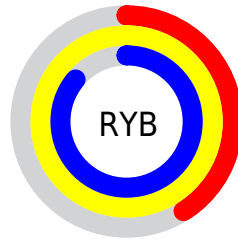
The XYZ color **49.0739, 78.0949, 25.5841** is a light color, and the websafe version is hex **99FF66**. A complement of this color would be **52.2155, 32.1823, 98.0675**, and the grayscale version is **57.3247, 60.3100, 65.6776**.

A 20% lighter version of the original color is **65.8374, 86.3026, 45.9890**, and **23.7038, 41.8000, 9.5082** is the 20% darker color. If you saturate the color by 10%, you get **44.9796, 76.1119, 19.6233**, and if you desaturate by 10%, it is **54.1379, 80.5325, 33.6361**.

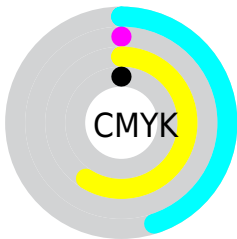
# Distribution



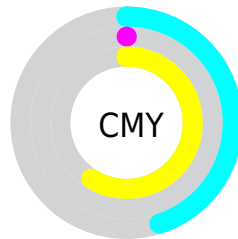
- Red (55%)
- Green (100%)
- Blue (41%)



- Red (41%)
- Yellow (100%)
- Blue (86%)



- Cyan (45%)
- Magenta (0%)
- Yellow (59%)
- Black (0%)




- Cyan (45%)
- Magenta (0%)
- Yellow (59%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.0739, 78.0949, 25.5841 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 49.0739, 78.0949, 25.5841 by changing the saturation by 10% instead.





 49.0739, 78.0949,  
25.5841


 49.0739, 78.0949,  
25.5841


373.5453,  
488.4891, 294.2747

 34.8929, 58.1519,  
16.2898


 88.0013, 130.6839,  
53.5791


 23.7465, 41.9308,  
9.5729


 113.4783,  
164.0987, 73.1168

 15.2694, 29.0471,  
5.0148


 143.4514,  
202.7729, 96.9061

 9.0962, 19.1165,  
2.1971

 178.2860,  
247.0910, 125.3654

 4.8616, 11.7545,  
0.6727

218.3473,  
297.4372, 158.9134

 2.2002, 6.5767,  
0.0000

264.0007,

 0.7429, 3.1988,

354.1960, 197.9686

0.0000

315.6116,  
417.7519, 242.9495

0.0000, 1.2364,  
0.0000

0.0000, 0.0911,  
0.0000

49.0739, 78.0949,  
25.5841

49.0739, 78.0949,  
25.5841

44.9796, 76.1119,  
19.6233

54.1379, 80.5325,  
33.6361

41.7873, 74.5529,  
15.5565


60.2308, 83.4516,  
43.9456


39.4206, 73.3836,  
13.1546

67.4080, 86.8775,  
56.6663

37.7775, 72.5588,  
12.0717

75.7203, 90.8333,  
71.9371

 37.6715, 72.5054,  
12.0095

 85.2155, 95.3408,  
89.8868

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.



64.5290, 78.0949, 14.3980



49.0739, 78.0949, 25.5841



41.2921, 78.0949, 57.0308

# Triad

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



49.0739, 78.0949, 25.5841



63.6674, 78.0949, 255.9789



121.5569, 78.0949, 59.1414

# Complementary

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



49.0739, 78.0949, 25.5841



52.2155, 32.1823, 98.0675

# 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.



121.2035, 78.0949, 120.9620



49.0739, 78.0949, 25.5841



84.8507, 78.0949, 257.5020

# Square

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



49.0739, 78.0949, 25.5841



48.5479, 78.0949, 196.5091



106.7730, 78.0949, 200.0118



107.6618, 78.0949, 26.4890



# Rectangle

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



49.0739, 78.0949, 25.5841



40.3435, 78.0949, 94.1898



106.7730, 78.0949, 200.0118



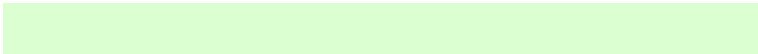
123.1737, 78.0949, 76.4880

# Sweetspot

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



49.0742, 78.0950, 25.5853



76.8089, 91.3506, 73.9707



68.6166, 72.0149, 23.3817



15.8880, 19.2903, 14.8035



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.



49.0742, 78.0950, 25.5853



44.3453, 75.8033, 18.7640



46.3334, 76.4089, 37.8006



18.1769, 20.3771, 19.1195



19.7938, 37.9422, 6.2803



2.0196, 3.7419, 0.6158



# Inverse Universe

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



52.2155, 32.1823, 98.0675



47.6006, 26.0841, 97.1336



58.7479, 36.1844, 69.7050



18.3446, 18.0694, 22.7708



21.2249, 9.8523, 50.2176

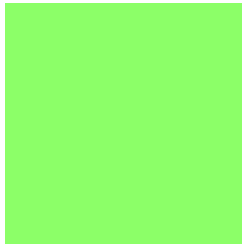


2.1635, 1.0092, 4.8940



# Previews

## White Background



This preview shows how the XYZ color 49.0739, 78.0949, 25.5841 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

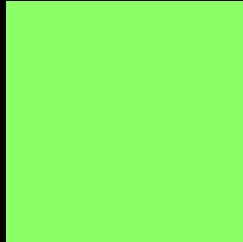
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.0739, 78.0949, 25.5841 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

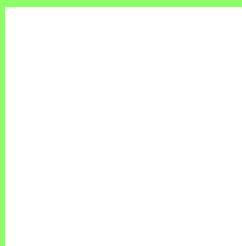
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 49.0739, 78.0949, 25.5841**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.0739, 78.0949, 25.5841.



This preview shows how white text looks on a background with the XYZ color 49.0739, 78.0949,

25.5841.

# 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

49.0739, 78.0949, 25.5841

### Protanopia

70.3627, 77.2140, 22.2616

### Deuteranopia

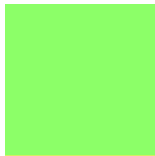
75.7018, 76.8387, 54.5575



## Tritanopia

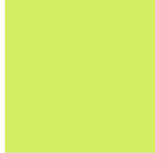
66.5290, 77.5992, 106.0794

# Trichromacy



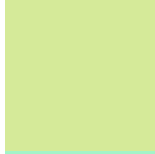
## Original Color

49.0739, 78.0949, 25.5841



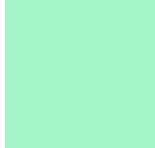
## Protanomaly

59.9780, 76.0470, 23.3217



## Deuteranomaly

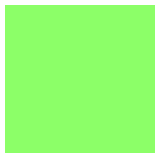
62.6132, 75.2917, 41.3697



## Tritanomaly

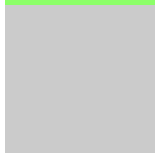
57.8803, 76.6580, 66.3894

# Monochromacy



## Original Color

49.0739, 78.0949, 25.5841



## Achromatopsia

56.7640, 59.7202, 65.0353



## Achromatomaly

51.9187, 64.7359, 46.3181

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.0739, 78.0949, 25.5841 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(140, 255, 104)` looks like.

```
.text, #text, p{  
    color:rgb(140, 255, 104)  
}
```

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(140, 255, 104) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(140, 255, 104) }
```

## Border

The CSS property to change the border of an element to XYZ 49.0739, 78.0949, 25.5841 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(140, 255, 104) }
```



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

```
.border{ border-color:rgb(140, 255, 104) }
```

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

Here you see how a box with a 4 pixel `rgb(140, 255, 104)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(140, 255, 104); -webkit-box-shadow:4px 4px 4px 4px rgb(140, 255, 104); box-shadow:4px 4px 4px 4px rgb(140, 255, 104) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.0739, 78.0949, 25.5841 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(140, 255, 104) }
```

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

```
.background{ background-color: rgb(140,  
255, 104) }
```

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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