

# Converting Colors

XYZ(48.8564, 78.2329, 14.2757)

Have a look what the booklet for  
XYZ(48.8564, 78.2329, 14.2757)  
contains.

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# Color

**XYZ(48.8564, 78.2329,  
14.2757)**

# Conversions

## Conversions Part 1

Format	Color
Hex	97FF25
RGB	151, 255, 37
RGB Percent	59%, 100%, 15%
CMY	0.4078, 0.0000, 0.8548
CMYK	0.41, 0.00, 0.85, 0.00
HSL	89°, 100%, 57%
HSV	89°, 85%, 100%
XYZ	48.8564, 78.2329, 14.2757
YIQ	199.0520, 7.9940, -89.8460

# Conversions

## Conversions Part 2

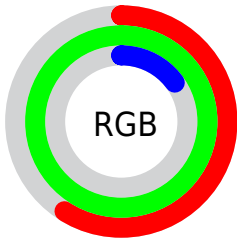
Format	Color
<a href="#">RYB</a>	<a href="#">37, 255, 141</a>
Decimal	<a href="#">9961253</a>
CIELab	<a href="#">90.89, -60.19, 82.68</a>
CIElCh	<a href="#">91, 102.270, 126.053</a>
Yxy	<a href="#">78.2329, 0.3456, 0.5534</a>
Android (android.graphics.Color)	<a href="#">4288151333 (0xFF97FF25)</a>
YUV	<a href="#">199.0520, -79.8916, -42.1416</a>
Hunter-Lab	<a href="#">88.4494, -56.1891, 52.3452</a>

# Details

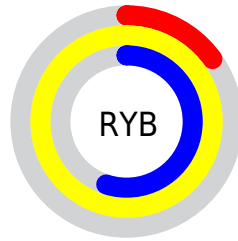
The XYZ color **48.8564, 78.2329, 14.2757** is a dark color, and the websafe version is hex **99FF33**. The color can be described as middle washed chartreuse. A complement of this color would be **29.6989, 14.2080, 95.7848**, and the grayscale version is **54.7891, 57.6424, 62.7725**.

A 20% lighter version of the original color is **65.5129, 86.5577, 26.8901**, and **23.9908, 42.0072, 6.8438** is the 20% darker color. If you saturate the color by 10%, you get **46.4431, 77.0200, 12.7510**, and if you desaturate by 10%, it is **51.7818, 79.6775, 17.2818**.

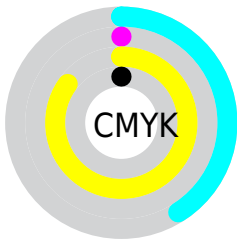
# Distribution



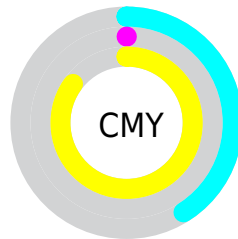
- Red (59%)
- Green (100%)
- Blue (15%)



- Red (15%)
- Yellow (100%)
- Blue (55%)



- Cyan (41%)
- Magenta (0%)
- Yellow (85%)
- Black (0%)




- Cyan (41%)
- Magenta (0%)
- Yellow (85%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.8564, 78.2329, 14.2757 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 48.8564, 78.2329, 14.2757 by changing the saturation by 10% instead.





 48.8564, 78.2329,  
14.2757


 48.8564, 78.2329,  
14.2757


372.7031,  
488.9574, 230.4271

 34.7196, 58.2653,  
8.1717


 87.6801, 130.8784,  
34.3016

 23.6125, 42.0220,  
4.1157


 113.0978,  
164.3251, 49.0605


 15.1696, 29.1185,  
1.6890


 143.0066,  
203.0336, 67.5416

 9.0256, 19.1705,  
0.3532

 177.7717,  
247.3883, 90.1633

 4.8151, 11.7935,  
0.0000

 217.7585,  
297.7737, 117.3441

 2.1728, 6.6032,  
0.0000

263.3325,

 0.7284, 3.2152,

354.5741, 149.5027

0.0000

314.8589,  
418.1738, 187.0575

■ 0.0000, 1.2451,  
0.0000

■ 0.0000, 0.0981,  
0.0000

■ 48.8564, 78.2329,  
14.2757

■ 48.8564, 78.2329,  
14.2757

■ 46.4431, 77.0200,  
12.7510

■ 51.7818, 79.6775,  
17.2818

■ 45.4867, 76.5343,  
12.3752

■ 55.2757, 81.3771,  
22.0295

■ 59.3850, 83.3515,  
28.7333

■ 64.1508, 85.6175,  
37.5760

69.6095, 88.1906,  
48.7193

75.7947, 91.0848,  
62.3093

82.7375, 94.3132,  
78.4801

90.4667, 97.8880,  
97.3559

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.



69.2576, 78.2329, 7.6664



48.8564, 78.2329, 14.2757



37.6625, 78.2329, 39.6126

# Triad

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



48.8564, 78.2329, 14.2757



56.0156, 78.2329, 291.6408



135.2700, 78.2329, 71.0859

# Complementary

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



48.8564, 78.2329, 14.2757



29.6989, 14.2080, 95.7848

# 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.



129.4159, 78.2329, 156.6838



48.8564, 78.2329, 14.2757



79.7029, 78.2329, 318.3512

# Square

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



48.8564, 78.2329, 14.2757



41.0788, 78.2329, 198.8741



107.4744, 78.2329, 258.9721



122.0068, 78.2329, 26.0107



# Rectangle

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



48.8564, 78.2329, 14.2757



35.0897, 78.2329, 75.7888



107.4744, 78.2329, 258.9721



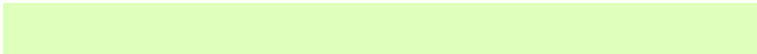
135.5065, 78.2329, 95.3216

# Sweetspot

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



48.8565, 78.2329, 14.2768



75.4578, 90.9277, 61.5473



50.7692, 39.7839, 6.7546



15.6773, 19.2410, 12.1147



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.



48.8565, 78.2329, 14.2768



45.4867, 76.5343, 12.3752



37.1449, 72.1953, 13.7287



18.6780, 20.6354, 19.1429



23.9415, 40.0804, 6.4744



2.4573, 3.9675, 0.6363



# Inverse Universe

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



29.6989, 14.2080, 95.7848



26.0279, 11.3328, 95.4234



57.3291, 28.4518, 97.0779



17.8275, 17.8028, 22.7466



13.7701, 6.0092, 49.8687

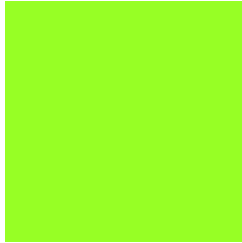


1.4659, 0.6496, 4.8614



# Previews

## White Background



This preview shows how the XYZ color 48.8564, 78.2329, 14.2757 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

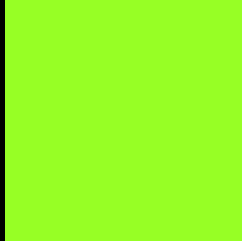
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 48.8564, 78.2329, 14.2757 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 48.8564, 78.2329, 14.2757**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.8564, 78.2329, 14.2757.



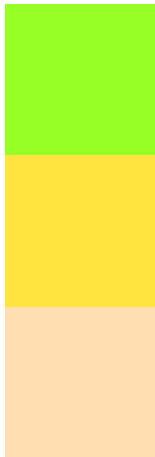
This preview shows how white text looks on a background with the XYZ color 48.8564, 78.2329,



# 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

48.8564, 78.2329, 14.2757

### Protanopia

69.9088, 77.1170, 16.0510

### Deuteranopia

75.3972, 76.7169, 52.9535



## Tritanopia

67.6256, 77.7335, 106.0476

# Trichromacy



## Original Color

48.8564, 78.2329, 14.2757



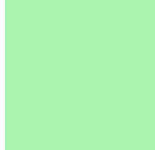
## Protanomaly

59.8557, 76.1671, 15.0370



## Deuteranomaly

61.8689, 75.1297, 31.3193



## Tritanomaly

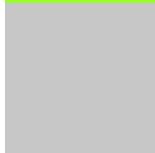
56.9817, 76.4939, 52.8358

# Monochromacy



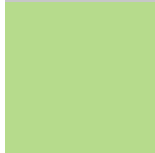
## Original Color

48.8564, 78.2329, 14.2757



## Achromatopsia

54.2854, 57.1125, 62.1955



## Achromatomaly

49.3565, 62.5016, 34.2736

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.8564, 78.2329, 14.2757 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(151, 255, 37)` looks like.

```
.text, #text, p{  
    color:rgb(151, 255, 37)  
}
```

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(151, 255, 37) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(151, 255, 37) }
```

## Border

The CSS property to change the border of an element to XYZ 48.8564, 78.2329, 14.2757 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(151, 255, 37) }
```



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

```
.border{ border-color:rgb(151, 255, 37) }
```

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

Here you see how a box with a 4 pixel `rgb(151, 255, 37)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(151, 255, 37); -webkit-box-  
shadow:4px 4px 4px 4px rgb(151, 255, 37);  
box-shadow:4px 4px 4px 4px rgb(151, 255,  
37) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.8564, 78.2329, 14.2757 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(151, 255, 37) }
```

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

```
.background{ background-color: rgb(151,  
255, 37) }
```

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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