

# Converting Colors

XYZ(46.6716, 77.1259, 13.3001)

Have a look what the booklet for  
XYZ(46.6716, 77.1259, 13.3001)  
contains.

<b>XYZ(46.7401, 77.1614, 13.2943)</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(46.7401, 77.1614,  
13.2943)**

# Conversions

## Conversions Part 1

Format	Color
Hex	8CFF18
RGB	140, 255, 24
RGB Percent	55%, 100%, 9%
CMY	0.4510, 0.0000, 0.9058
CMYK	0.45, 0.00, 0.91, 0.00
HSL	90°, 100%, 55%
HSV	90°, 91%, 100%
XYZ	46.7401, 77.1614, 13.2943
YIQ	194.2810, 5.6110, -96.2210

# Conversions

## Conversions Part 2

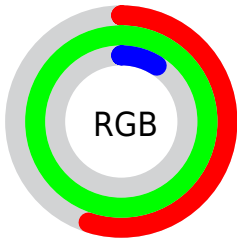
Format	Color
<a href="#">RYB</a>	<a href="#">24, 255, 139</a>
Decimal	<a href="#">9240344</a>
CIELab	<a href="#">90.40, -63.95, 84.22</a>
CIELCh	<a href="#">90, 105.746, 127.208</a>
Yxy	<a href="#">77.1614, 0.3407, 0.5624</a>
Android (android.graphics.Color)	<a href="#">4287430424 (0xFF8CFF18)</a>
YUV	<a href="#">194.2810, -83.9485, -47.6044</a>
Hunter-Lab	<a href="#">87.8416, -58.7437, 52.5159</a>

# Details

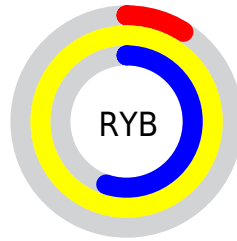
The XYZ color **46.7401, 77.1614, 13.2943** is a dark color, and the websafe version is hex **99FF00**. The color can be described as middle washed chartreuse. A complement of this color would be **29.0279, 13.3648, 95.6575**, and the grayscale version is **51.9260, 54.6302, 59.4923**.

A 20% lighter version of the original color is **62.4174, 84.9967, 25.1728**, and **22.8679, 41.4284, 6.7912** is the 20% darker color. If you saturate the color by 10%, you get **44.6682, 76.1123, 12.3369**, and if you desaturate by 10%, it is **49.4049, 78.4889, 15.5096**.

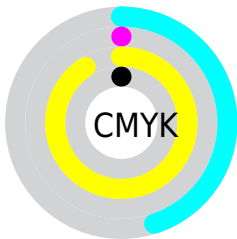
# Distribution



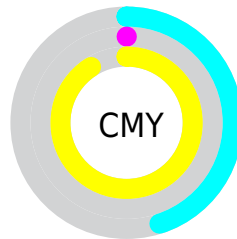
- Red (55%)
- Green (100%)
- Blue (9%)



- Red (9%)
- Yellow (100%)
- Blue (55%)



- Cyan (45%)
- Magenta (0%)
- Yellow (91%)
- Black (0%)



- Cyan (45%)
- Magenta (0%)
- Yellow (91%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.7401, 77.1614, 13.2943 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 46.7401, 77.1614, 13.2943 by changing the saturation by 10% instead.





 46.7401, 77.1614,  
13.2943

 46.7401, 77.1614,  
13.2943


364.4424,  
485.3141, 224.0689

 33.0373, 57.3854,  
7.4984


 84.5466, 129.3673,  
32.5304

 22.3144, 41.3147,  
3.6926


 109.3811,  
162.5659, 46.8077


 14.2060, 28.5651,  
1.4583


 138.6569,  
201.0075, 64.7492

 8.3467, 18.7521,  
0.1865

 172.7393,  
245.0765, 86.7735

 4.3713, 11.4913,  
0.0000

 211.9937,  
295.1573, 113.2991

 1.9142, 6.3983,  
0.0000

 256.7855,

 0.5851, 3.0887,

351.6342, 144.7445

0.0000

307.4799,  
414.8917, 181.5282

■ 0.0000, 1.1782,  
0.0000

■ 0.0000, 0.0438,  
0.0000

■ 46.7401, 77.1614,  
13.2943

■ 46.7401, 77.1614,  
13.2943

■ 44.6682, 76.1123,  
12.3369

■ 49.4049, 78.4889,  
15.5096

■ 52.6293, 80.0697,  
19.3414

■ 56.4657, 81.9255,  
25.0262

■ 60.9586, 84.0752,  
32.7608

■ 66.1477, 86.5352,  
42.7168

■ 72.0686, 89.3208,  
55.0478

■ 78.7544, 92.4458,  
69.8936

■ 86.2360, 95.9233,  
87.3835

94.5421, 99.7656,  
107.6374

# Harmonies

## Analogous

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



67.1567, 77.1614, 6.5916



46.7401, 77.1614, 13.2943



35.8064, 77.1614, 39.3636

# Triad

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



46.7401, 77.1614, 13.2943



55.3895, 77.1614, 301.7619



136.0632, 77.1614, 67.0728

# Complementary

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



46.7401, 77.1614, 13.2943



29.0279, 13.3648, 95.6575

# 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.



130.7578, 77.1614, 153.8066



46.7401, 77.1614, 13.2943



79.8908, 77.1614, 326.3149

# Square

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



46.7401, 77.1614, 13.2943



39.8999, 77.1614, 206.0618



108.4943, 77.1614, 260.9950



121.6202, 77.1614, 23.2236



# Rectangle

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



46.7401, 77.1614, 13.2943



33.4416, 77.1614, 77.1344



108.4943, 77.1614, 260.9950



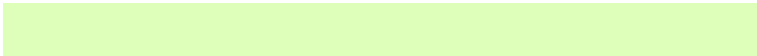
136.5782, 77.1614, 91.2944

# Sweetspot

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



46.7402, 77.1615, 13.2954



74.3728, 90.3999, 60.0671



50.1615, 38.8389, 5.7181



15.4480, 19.1288, 11.8307



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.



46.7402, 77.1615, 13.2954



44.6682, 76.1123, 12.3369



36.4004, 71.8311, 12.8115



18.6407, 20.6162, 19.1412



23.5124, 39.8592, 6.4544



2.4153, 3.9459, 0.6343



# Inverse Universe

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



29.0279, 13.3648, 95.6575



26.7964, 11.7289, 95.4593



58.2149, 28.4113, 97.0234



17.8646, 17.8219, 22.7484



14.1737, 6.2173, 49.8876

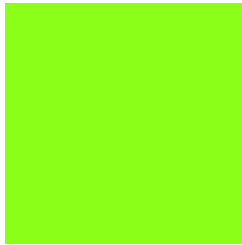


1.5059, 0.6703, 4.8633



# Previews

## White Background



This preview shows how the XYZ color 46.7401, 77.1614, 13.2943 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

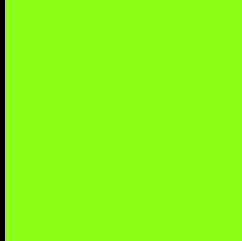
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 46.7401, 77.1614, 13.2943 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 46.7401, 77.1614, 13.2943**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.7401, 77.1614, 13.2943.



This preview shows how white text looks on a background with the XYZ color 46.7401, 77.1614,



# 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

46.7401, 77.1614, 13.2943

### Protanopia

68.7474, 76.2135, 11.2883

### Deuteranopia

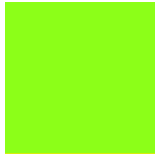
74.6393, 75.9900, 50.2688



## Tritanopia

65.7897, 76.7870, 105.9616

# Trichromacy



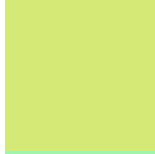
## Original Color

46.7401, 77.1614, 13.2943



## Protanomaly

57.7974, 74.7436, 11.7615



## Deuteranomaly

59.9093, 73.7559, 28.5315



## Tritanomaly

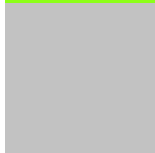
54.6017, 75.3230, 50.1891

# Monochromacy



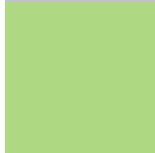
## Original Color

46.7401, 77.1614, 13.2943



## Achromatopsia

51.2775, 53.9479, 58.7493



## Achromatomaly

46.1763, 59.7763, 30.9340

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.7401, 77.1614, 13.2943 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, 24)` looks like.

```
.text, #text, p{  
    color:rgb(140, 255, 24)  
}
```

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, 24) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(140, 255, 24) }
```

## Border

The CSS property to change the border of an element to XYZ 46.7401, 77.1614, 13.2943 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, 24) }
```



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

```
.border{ border-color:rgb(140, 255, 24) }
```

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, 24)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(140, 255, 24); -webkit-box-  
shadow:4px 4px 4px 4px rgb(140, 255, 24);  
box-shadow:4px 4px 4px 4px rgb(140, 255,  
24) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.7401, 77.1614, 13.2943 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, 24) }
```

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

```
.background{ background-color: rgb(140,  
255, 24) }
```

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