

# Converting Colors

XYZ(47.5642, 68.4923, 14.9404)

Have a look what the booklet for  
XYZ(47.5642, 68.4923, 14.9404)  
contains.

<b>XYZ(47.5372, 68.5136, 14.9939)</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(47.5372, 68.5136,  
14.9939)**

# Conversions

## Conversions Part 1

Format	Color
Hex	ACEB3C
RGB	172, 235, 60
RGB Percent	67%, 92%, 24%
CMY	0.3255, 0.0784, 0.7647
CMYK	0.27, 0.00, 0.74, 0.08
HSL	82°, 81%, 58%
HSV	82°, 74%, 92%
XYZ	47.5372, 68.5136, 14.9939
YIQ	196.2130, 18.6270, -67.7810

# Conversions

## Conversions Part 2

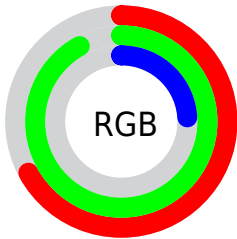
Format	Color
<a href="#">RYB</a>	<a href="#">60, 235, 123</a>
Decimal	<a href="#">11332412</a>
CIELab	<a href="#">86.26, -43.90, 73.04</a>
CIElCh	<a href="#">86, 85.213, 121.009</a>
Yxy	<a href="#">68.5136, 0.3628, 0.5228</a>
Android (android.graphics.Color)	<a href="#">4289522492 (0xFFACEB3C)</a>
YUV	<a href="#">196.2130, -67.1530, -21.2348</a>
Hunter-Lab	<a href="#">82.7729, -42.3386, 47.2010</a>

# Details

The XYZ color **47.5372, 68.5136, 14.9939** is a light color, and the websafe version is hex **99CC00**. The color can be described as light washed chartreuse. A complement of this color would be **24.7826, 13.4428, 79.8898**, and the grayscale version is **52.9820, 55.7412, 60.7022**.

A 20% lighter version of the original color is **72.0448, 89.8408, 30.9966**, and **23.0595, 35.8176, 5.6981** is the 20% darker color. If you saturate the color by 10%, you get **45.2508, 67.3937, 12.3332**, and if you desaturate by 10%, it is **50.2206, 69.8108, 19.1146**.

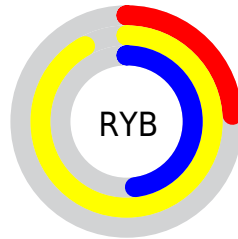
# Distribution



Red (67%)

Green (92%)

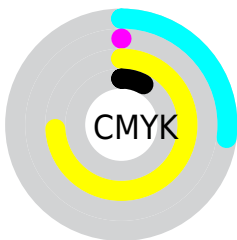
Blue (24%)



Red (24%)

Yellow (92%)

Blue (48%)

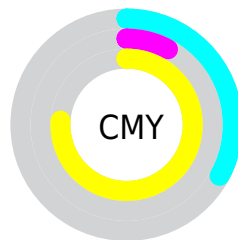


Cyan (27%)

Magenta (0%)

Yellow (74%)

Black (8%)



Cyan (33%)

Magenta (8%)


Yellow (76%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.5372, 68.5136, 14.9939 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 47.5372, 68.5136, 14.9939 by changing the saturation by 10% instead.





 47.5372, 68.5136,  
14.9939


 47.5372, 68.5136,  
14.9939


367.5680,  
455.3136, 234.9688

 33.6703, 50.3157,  
8.6685


 85.7288, 117.0866,  
35.5846

 22.8021, 35.6643,  
4.4318


 110.7842,  
148.2304, 50.6871


 14.5673, 24.1750,  
1.8651


 140.2998,  
184.4584, 69.5523

 8.6006, 15.4635,  
0.4704

 174.6409,  
226.1549, 92.5988

 4.5366, 9.1453,  
0.0000

 214.1729,  
273.7042, 120.2452

 2.0100, 4.8361,  
0.0000

259.2612,

 0.6396, 2.1514,

327.4909, 152.9099

0.0000

310.2711,  
387.8992, 191.0116

■ 0.0000, 0.6933,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 47.5372, 68.5136,  
14.9939

■ 47.5372, 68.5136,  
14.9939

■ 45.2508, 67.3937,  
12.3332

■ 50.2206, 69.8108,  
19.1146


■ 43.3150, 66.4250,  
10.9193


■ 53.3309, 71.2902,  
24.8616


■ 42.3603, 65.9413,  
10.4953


■ 56.8996, 72.9671,  
32.3836

■ 60.9535, 74.8526,  
41.8111

 65.5171, 76.9564,  
53.2626

 70.6129, 79.2880,  
66.8469

 76.2620, 81.8560,  
82.6648

 82.4841, 84.6684,  
100.8111

 86.5241, 86.6234,  
106.7674

# Harmonies

## Analogous

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



64.4576, 68.5136, 10.2954



47.5372, 68.5136, 14.9939



37.3567, 68.5136, 33.4970

# Triad

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



47.5372, 68.5136, 14.9939



48.4768, 68.5136, 214.8384



110.6504, 68.5136, 72.7120

# Complementary

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



47.5372, 68.5136, 14.9939



24.7826, 13.4428, 79.8898

# 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.



104.0555, 68.5136, 140.2625



47.5372, 68.5136, 14.9939



65.7871, 68.5136, 243.4209

# Square

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



47.5372, 68.5136, 14.9939



37.8176, 68.5136, 145.3459



86.5784, 68.5136, 211.0078



103.1496, 68.5136, 31.6004



# Rectangle

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



47.5372, 68.5136, 14.9939



34.4866, 68.5136, 58.9400



86.5784, 68.5136, 211.0078



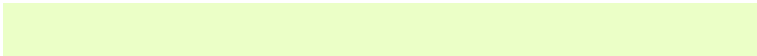
109.9992, 68.5136, 92.8130

# Sweetspot

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



47.5388, 68.5166, 14.9954



80.2528, 93.2674, 67.7446



41.9471, 31.7265, 8.1889



16.8350, 19.8059, 13.6078



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.



47.5388, 68.5166, 14.9954



53.2679, 80.5214, 13.8364



34.3871, 61.7367, 14.3799



15.7954, 17.3401, 16.0332



23.7186, 36.7719, 5.8476



1.9669, 2.9413, 0.4641



# Inverse Universe

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



24.7826, 13.4428, 79.8898



24.8671, 11.3525, 95.4884



42.8378, 22.7506, 80.7348



14.7431, 14.8128, 19.0044



10.5378, 4.4684, 44.0500

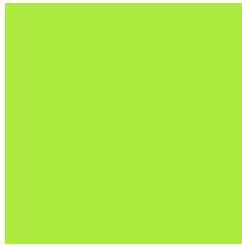


0.9294, 0.4034, 3.4638



# Previews

## White Background



This preview shows how the XYZ color 47.5372, 68.5136, 14.9939 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

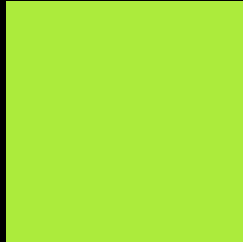
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 47.5372, 68.5136, 14.9939 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 47.5372, 68.5136, 14.9939**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.5372, 68.5136, 14.9939.



This preview shows how white text looks on a background with the XYZ color 47.5372, 68.5136,



# 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

47.5372, 68.5136, 14.9939

### Protanopia

61.2657, 67.5775, 13.4291

### Deuteranopia

67.7865, 67.5791, 31.6616



## Tritanopia

62.6099, 68.1149, 89.9684

# Trichromacy



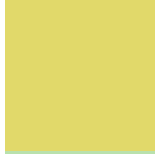
## Original Color

47.5372, 68.5136, 14.9939



## Protanomaly

55.1787, 67.1369, 13.9214



## Deuteranomaly

58.4657, 66.6739, 23.4235



## Tritanomaly

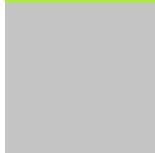
54.4756, 67.1818, 49.6314

# Monochromacy



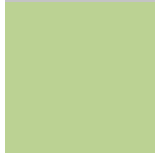
## Original Color

47.5372, 68.5136, 14.9939



## Achromatopsia

52.4687, 55.2011, 60.1140



## Achromatomaly

48.8066, 58.7646, 36.3741

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.5372, 68.5136, 14.9939 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(172, 235, 60)` looks like.

```
.text, #text, p{  
    color:rgb(172, 235, 60)  
}
```

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(172, 235, 60) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(172, 235, 60) }
```

## Border

The CSS property to change the border of an element to XYZ 47.5372, 68.5136, 14.9939 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(172, 235, 60) }
```



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

```
.border{ border-color:rgb(172, 235, 60) }
```

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

Here you see how a box with a 4 pixel `rgb(172, 235, 60)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(172, 235, 60); -webkit-box-  
shadow:4px 4px 4px 4px rgb(172, 235, 60);  
box-shadow:4px 4px 4px 4px rgb(172, 235,  
60) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.5372, 68.5136, 14.9939 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(172, 235, 60) }
```

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

```
.background{ background-color: rgb(172,  
235, 60) }
```

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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