

# Converting Colors

XYZ(48.3681, 66.1397, 13.5477)

Have a look what the booklet for  
XYZ(48.3681, 66.1397, 13.5477)  
contains.

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# Color

**XYZ(48.3936, 66.0581,  
13.5680)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B9E435
RGB	185, 228, 53
RGB Percent	73%, 89%, 21%
CMY	0.2745, 0.1059, 0.7921
CMYK	0.19, 0.00, 0.77, 0.11
HSL	75°, 76%, 55%
HSV	75°, 77%, 89%
XYZ	48.3936, 66.0581, 13.5680
YIQ	195.1930, 30.5470, -63.5410

# Conversions

## Conversions Part 2

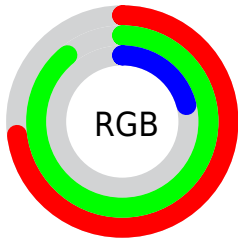
Format	Color
<a href="#">RYB</a>	<a href="#">53, 228, 96</a>
Decimal	<a href="#">12182581</a>
CIELab	<a href="#">85.03, -36.20, 74.29</a>
CIELCh	<a href="#">85, 82.637, 115.980</a>
Yxy	<a href="#">66.0581, 0.3780, 0.5160</a>
Android (android.graphics.Color)	<a href="#">4290372661 (0xFFB9E435)</a>
YUV	<a href="#">195.1930, -70.1011, -8.9393</a>
Hunter-Lab	<a href="#">81.2761, -35.9504, 46.9956</a>

# Details

The XYZ color **48.3936, 66.0581, 13.5680** 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 **20.1030, 10.6361, 74.3961**, and the grayscale version is **52.3811, 55.1090, 60.0137**.

A 20% lighter version of the original color is **76.0489, 91.9454, 29.3618**, and **23.5049, 34.0171, 5.3271** is the 20% darker color. If you saturate the color by 10%, you get **46.6640, 65.2155, 11.3706**, and if you desaturate by 10%, it is **50.4288, 67.0338, 17.0834**.

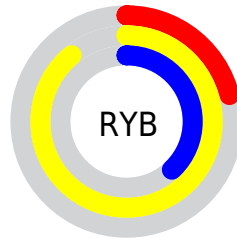
# Distribution



Red (73%)

Green (89%)

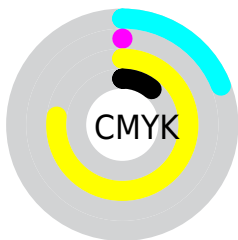
Blue (21%)



Red (21%)

Yellow (89%)

Blue (38%)

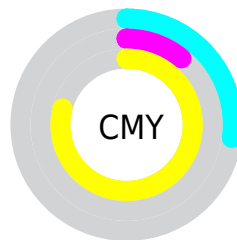


Cyan (19%)

Magenta (0%)

Yellow (77%)

Black (11%)



Cyan (27%)

Magenta (11%)


Yellow (79%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.3936, 66.0581, 13.5680 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 48.3936, 66.0581, 13.5680 by changing the saturation by 10% instead.




 48.3936, 66.0581,  
13.5680


 48.3936, 66.0581,  
13.5680

370.9068,  
446.5846, 225.8607

 34.3512, 48.3196,  
7.6855


 86.9963, 113.5697,  
33.0265


 23.3277, 34.0800,  
3.8095


 112.2873,  
144.1116, 47.4397


 14.9577, 22.9551,  
1.5214


 142.0587,  
179.6900, 65.5334

 8.8758, 14.5603,  
0.2338

 176.6756,  
220.6895, 87.7264

 4.7167, 8.5114,  
0.0000

 216.5036,  
267.4942, 114.4371

 2.1151, 4.4239,  
0.0000

261.9078,

 0.6974, 1.9134,

320.4887, 146.0840

0.0000

313.2538,  
380.0574, 183.0857

■ 0.0000, 0.5564,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 48.3936, 66.0581,  
13.5680

■ 48.3936, 66.0581,  
13.5680

■ 46.6640, 65.2155,  
11.3706

■ 50.4288, 67.0338,  
17.0834


■ 45.1950, 64.4809,  
10.2767


■ 52.7969, 68.1465,  
22.0773


■ 44.7522, 64.2573,  
10.0442


■ 55.5267, 69.4102,  
28.6918


■ 58.6425, 70.8346,  
37.0512

 62.1659, 72.4286,  
47.2676

 66.1173, 74.2002,  
59.4439

 70.5151, 76.1569,  
73.6754

 75.3769, 78.3058,  
90.0510

 80.1975, 80.4449,  
105.9083

# Harmonies

## Analogous

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



65.3258, 66.0581, 10.5117



48.3936, 66.0581, 13.5680



37.5750, 66.0581, 28.5085

# Triad

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



48.3936, 66.0581, 13.5680



44.8356, 66.0581, 194.5136



105.6194, 66.0581, 79.3446

# Complementary

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



48.3936, 66.0581, 13.5680



20.1030, 10.6361, 74.3961

# Split Complementary

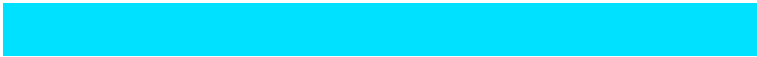
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



97.3175, 66.0581, 145.7495



48.3936, 66.0581, 13.5680



60.3134, 66.0581, 229.9986

# Square

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



48.3936, 66.0581, 13.5680



35.8232, 66.0581, 126.7354



79.7822, 66.0581, 208.7804



100.7127, 66.0581, 35.7561



# Rectangle

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



48.3936, 66.0581, 13.5680



34.0994, 66.0581, 49.8664



79.7822, 66.0581, 208.7804



104.2436, 66.0581, 99.6868

# Sweetspot

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



48.3951, 66.0611, 13.5694



81.8984, 94.1496, 66.2899



36.6279, 24.7289, 6.2117



17.1474, 19.9801, 13.0322



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.



48.3951, 66.0611, 13.5694



59.0069, 83.4892, 13.6857



33.6071, 58.4376, 12.8773



15.2375, 16.6295, 15.3112



25.9529, 37.1607, 5.8049



2.0005, 2.7887, 0.4328



# Inverse Universe

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



20.1030, 10.6361, 74.3961



21.4535, 9.3565, 95.2830



34.4134, 18.0134, 75.0658



13.9129, 14.0573, 18.1244



9.1192, 3.7670, 42.6296



0.7567, 0.3211, 3.1541



# Previews

## White Background



This preview shows how the XYZ color 48.3936, 66.0581, 13.5680 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 48.3936, 66.0581, 13.5680 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

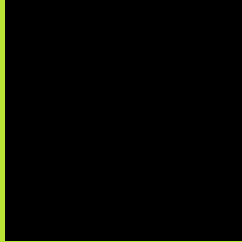
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 48.3936, 66.0581, 13.5680

## Background



This preview shows how black text looks on a background with the XYZ color 48.3936, 66.0581, 13.5680.



This preview shows how white text looks on a background with the XYZ color 48.3936, 66.0581,



# 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

48.3936, 66.0581, 13.5680

### Protanopia

59.3578, 65.4859, 12.4173

### Deuteranopia

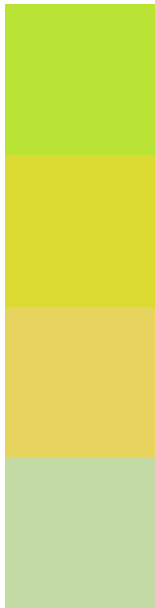
65.8068, 65.2562, 25.9569



## Tritanopia

62.3149, 65.4406, 83.4757

# Trichromacy



## Original Color

48.3936, 66.0581, 13.5680

## Protanomaly

54.8605, 65.4332, 12.7560

## Deuteranomaly

58.1970, 64.7181, 20.0142

## Tritanomaly

54.6279, 64.5952, 45.1862

# Monochromacy



## Original Color

48.3936, 66.0581, 13.5680

## Achromatopsia

51.8711, 54.5724, 59.4294

## Achromatomaly

48.7566, 57.6852, 34.5512

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.3936, 66.0581, 13.5680 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(185, 228, 53)` looks like.

```
.text, #text, p{  
    color:rgb(185, 228, 53)  
}
```

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(185, 228, 53) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(185, 228, 53) }
```

## Border

The CSS property to change the border of an element to XYZ 48.3936, 66.0581, 13.5680 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(185, 228, 53) }
```



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

```
.border{ border-color:rgb(185, 228, 53) }
```

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

Here you see how a box with a 4 pixel `rgb(185, 228, 53)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(185, 228, 53); -webkit-box-  
shadow:4px 4px 4px 4px rgb(185, 228, 53);  
box-shadow:4px 4px 4px 4px rgb(185, 228,  
53) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.3936, 66.0581, 13.5680 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(185, 228, 53) }
```

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

```
.background{ background-color: rgb(185,  
228, 53) }
```

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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