

# Converting Colors

XYZ(38.0130, 53.4342, 10.4007)

Have a look what the booklet for  
XYZ(38.0130, 53.4342, 10.4007)  
contains.

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# Color

**XYZ(37.8986, 53.3381,  
10.3956)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A1D129
RGB	161, 209, 41
RGB Percent	63%, 82%, 16%
CMY	0.3686, 0.1804, 0.8392
CMYK	0.23, 0.00, 0.80, 0.18
HSL	77°, 67%, 49%
HSV	77°, 80%, 82%
XYZ	37.8986, 53.3381, 10.3956
YIQ	175.4960, 25.3200, -62.4240

# Conversions

## Conversions Part 2

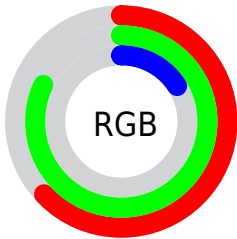
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	41, 209, 89
Decimal	10604841
CIE <sub>Lab</sub>	78.07, -37.48, 70.79
CIE <sub>LCh</sub>	78, 80.096, 117.899
Yxy	53.3381, 0.3729, 0.5248
Android (android.graphics.Color)	4288794921 (0xFFA1D129)
YUV	175.4960, -66.3065, -12.7130
Hunter-Lab	73.0329, -35.1796, 42.6836

# Details

The XYZ color **37.8986, 53.3381, 10.3956** is a dark color, and the websafe version is hex **99CC33**. The color can be described as middle washed chartreuse. A complement of this color would be **16.4235, 8.3146, 61.0641**, and the grayscale version is **41.3307, 43.4831, 47.3531**.

A 20% lighter version of the original color is **67.3717, 87.5394, 25.9163**, and **17.2645, 26.0543, 4.1190** is the 20% darker color. If you saturate the color by 10%, you get **36.4516, 52.6255, 8.9034**, and if you desaturate by 10%, it is **39.5990, 54.1625, 12.9116**.

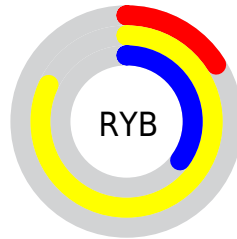
# Distribution



Red (63%)

Green (82%)

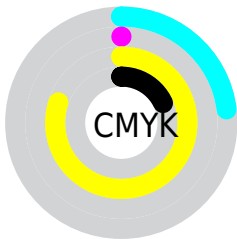
Blue (16%)



Red (16%)

Yellow (82%)

Blue (35%)

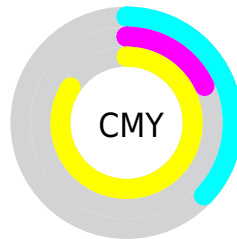


Cyan (23%)

Magenta (0%)

Yellow (80%)

Black (18%)



Cyan (37%)

Magenta (18%)


Yellow (84%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.8986, 53.3381, 10.3956 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 37.8986, 53.3381, 10.3956 by changing the saturation by 10% instead.





 37.8986, 53.3381,  
10.3956


 37.8986, 53.3381,  
10.3956


328.4732,  
399.5809, 204.0590


 26.0809, 38.0727,  
5.5530


 71.2576, 95.1017,  
27.1563


 17.0171, 26.0392,  
2.5109


 93.5296, 122.3687,  
39.9116

 10.3421, 16.8529,  
0.8459


 120.0170,  
154.4051, 56.1414

 5.6904, 10.1297,  
0.0000

 151.0852,  
191.5952, 76.2644

 2.6966, 5.4850,  
0.0000

 187.0995,  
234.3234, 100.6992

 0.9954, 2.5346,  
0.0000

 228.4254,

 0.0000, 0.8939,

282.9742, 129.8641

0.0000

275.4282,  
337.9319, 164.1779

■ 0.0000, 0.0000,  
0.0000

■ 37.8986, 53.3381,  
10.3956

■ 37.8986, 53.3381,  
10.3956

■ 36.4516, 52.6255,  
8.9034

■ 39.5990, 54.1625,  
12.9116

■ 35.2475, 52.0194,  
8.1830

■ 41.5768, 55.1028,  
16.5895

■ 43.8567, 56.1707,  
21.5499

■ 46.4592, 57.3745,  
27.8973

■ 49.4029, 58.7218,  
35.7254

■ 52.7047, 60.2195,  
45.1199

■ 56.3804, 61.8738,  
56.1598

■ 60.4447, 63.6908,  
68.9189

■ 64.9113, 65.6761,  
83.4664

# Harmonies

## Analogous

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



51.8058, 53.3381, 7.5469



37.8986, 53.3381, 10.3956



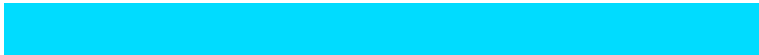
29.2683, 53.3381, 23.3033

# Triad

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



37.8986, 53.3381, 10.3956



36.3487, 53.3381, 165.6991



87.0339, 53.3381, 61.2883

# Complementary

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



37.8986, 53.3381, 10.3956



16.4235, 8.3146, 61.0641

# 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.



80.6407, 53.3381, 116.8461



37.8986, 53.3381, 10.3956



49.6027, 53.3381, 193.4652

# Square

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



37.8986, 53.3381, 10.3956



28.5112, 53.3381, 108.3524



66.0923, 53.3381, 172.1265



82.1511, 53.3381, 26.4040



# Rectangle

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



37.8986, 53.3381, 10.3956



26.6301, 53.3381, 41.8420



66.0923, 53.3381, 172.1265



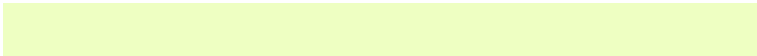
86.1090, 53.3381, 78.0448

# Sweetspot

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



37.8998, 53.3405, 10.3967



80.5714, 93.4988, 64.7218



30.2360, 20.7957, 4.5189



16.8493, 19.8327, 12.7305



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.



37.8998, 53.3405, 10.3967



55.8350, 81.8626, 13.1512



26.2956, 47.3583, 9.8537



12.4605, 13.6209, 12.5844



21.8327, 32.1241, 5.0499



1.2967, 1.8354, 0.2859



# Inverse Universe

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



16.4235, 8.3146, 61.0641



21.4819, 9.1535, 95.2423



29.4489, 15.0294, 61.6736



11.4765, 11.5789, 14.8737



8.3192, 3.4690, 37.4236



0.5436, 0.2344, 2.0962



# Previews

## White Background



This preview shows how the XYZ color 37.8986, 53.3381, 10.3956 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 37.8986, 53.3381, 10.3956 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 37.8986, 53.3381, 10.3956**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.8986, 53.3381, 10.3956.



This preview shows how white text looks on a background with the XYZ color 37.8986, 53.3381,



# 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

37.8986, 53.3381, 10.3956

### Protanopia

48.0192, 53.0252, 9.4543

### Deuteranopia

53.8987, 52.8436, 10.9735



## Tritanopia

49.7384, 53.2671, 68.6328

# Trichromacy



## Original Color

37.8986, 53.3381, 10.3956

## Protanomaly

43.7992, 52.8571, 9.7277

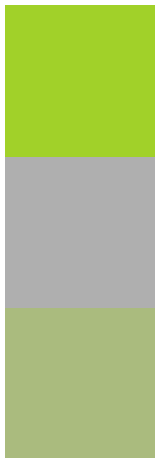
## Deuteranomaly

46.5767, 51.9266, 10.5856

## Tritanomaly

43.0923, 52.2491, 36.2477

# Monochromacy



## Original Color

37.8986, 53.3381, 10.3956

## Achromatopsia

40.7470, 42.8690, 46.6844

## Achromatomaly

38.1138, 45.5931, 26.5302

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.8986, 53.3381, 10.3956 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(161, 209, 41)` looks like.

```
.text, #text, p{  
    color:rgb(161, 209, 41)  
}
```

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(161, 209, 41) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(161, 209, 41) }
```

## Border

The CSS property to change the border of an element to XYZ 37.8986, 53.3381, 10.3956 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(161, 209, 41) }
```



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

```
.border{ border-color:rgb(161, 209, 41) }
```

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

Here you see how a box with a 4 pixel `rgb(161, 209, 41)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(161, 209, 41); -webkit-box-  
shadow:4px 4px 4px 4px rgb(161, 209, 41);  
box-shadow:4px 4px 4px 4px rgb(161, 209,  
41) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.8986, 53.3381, 10.3956 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(161, 209, 41) }
```

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

```
.background{ background-color: rgb(161,  
209, 41) }
```

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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