

# Converting Colors

XYZ(19.4319, 37.7033, 8.7338)

Have a look what the booklet for  
XYZ(19.4319, 37.7033, 8.7338)  
contains.

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# Color

**XYZ(19.3730, 37.5895,  
8.7171)**

# Conversions

## Conversions Part 1

Format	Color
Hex	13BF2D
RGB	19, 191, 45
RGB Percent	7%, 75%, 18%
CMY	0.9255, 0.2510, 0.8235
CMYK	0.90, 0.00, 0.76, 0.25
HSL	129°, 82%, 41%
HSV	129°, 90%, 75%
XYZ	19.3730, 37.5895, 8.7171
YIQ	122.9280, -55.6460, -81.8700

# Conversions

## Conversions Part 2

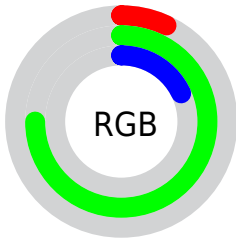
<b>Format</b>	<b>Color</b>
<b>RYB</b>	19, 168, 191
Decimal	1294125
CIELab	67.72, -66.59, 58.14
CIELCh	68, 88.404, 138.877
Yxy	37.5895, 0.2950, 0.5723
Android (android.graphics.Color)	4279484205 (0xFF13BF2D)
YUV	122.9280, -38.4185, -91.1449
Hunter-Lab	61.3103, -50.8900, 34.4873

# Details

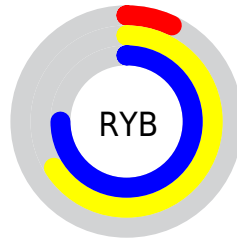
The XYZ color **19.3730, 37.5895, 8.7171** is a dark color, and the websafe version is hex **33CC33**. A complement of this color would be **28.5109, 14.2591, 36.8456**, and the grayscale version is **18.9397, 19.9261, 21.6995**.

A 20% lighter version of the original color is **41.9336, 71.6340, 23.9285**, and **8.8042, 17.6083, 2.9347** is the 20% darker color. If you saturate the color by 10%, you get **18.8518, 37.3512, 7.3705**, and if you desaturate by 10%, it is **20.2828, 38.0164, 10.7147**.

# Distribution



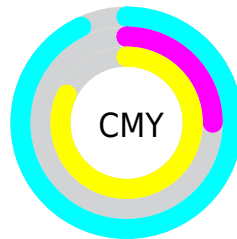
- Red (7%)
- Green (75%)
- Blue (18%)



- Red (7%)
- Yellow (66%)
- Blue (75%)



- Cyan (90%)
- Magenta (0%)
- Yellow (76%)
- Black (25%)




- Cyan (93%)
- Magenta (25%)
- Yellow (82%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 19.3730, 37.5895, 8.7171 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 19.3730, 37.5895, 8.7171 by changing the saturation by 10% instead.





 19.3730, 37.5895,  
8.7171


 19.3730, 37.5895,  
8.7171


241.3990,  
335.8557, 191.3929


 12.0457, 25.6642,  
4.4628


 41.8755, 71.4785,  
23.9217

 6.8472, 16.5726,  
1.8825


 57.7813, 94.2111,  
35.7091


 3.4122, 9.9303,  
0.4816


 77.2774, 121.3148,  
50.8446

 1.3753, 5.3527,  
0.0000

 100.7292,  
153.1742, 69.7468

 0.2385, 2.4557,  
0.0000

 128.5018,  
190.1736, 92.8341

 0.0000, 0.8543,  
0.0000

 160.9608,

 0.0000, 0.0000,

232.6974, 120.5253

0.0000

198.4714,  
281.1300, 153.2387

■ 19.3730, 37.5895,  
8.7171

■ 19.3730, 37.5895,  
8.7171

■ 18.8518, 37.3512,  
7.3705

■ 20.2828, 38.0164,  
10.7147

■ 21.6852, 38.6808,  
13.4245

■ 23.6405, 39.6137,  
16.9063

■ 26.1993, 40.8402,  
21.2129

■ 29.4068, 42.3824,  
26.3926

■ 33.3034, 44.2603,  
32.4898

■ 37.9265, 46.4921,  
39.5459

■ 43.3106, 49.0951,  
47.5998

■ 49.4881, 52.0849,  
56.6882

# Harmonies

## Analogous

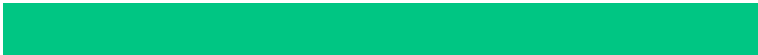
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



27.8876, 37.5895, 3.0425



19.3730, 37.5895, 8.7171



15.6597, 37.5895, 28.0677

# Triad

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



19.3730, 37.5895, 8.7171



30.8977, 37.5895, 167.9472



66.7786, 37.5895, 21.1004

# Complementary

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



19.3730, 37.5895, 8.7171



28.5109, 14.2591, 36.8456

# 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.



68.1830, 37.5895, 57.2177



19.3730, 37.5895, 8.7171



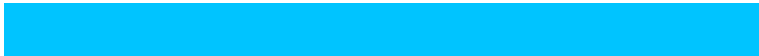
44.9146, 37.5895, 161.2905

# Square

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



19.3730, 37.5895, 8.7171



21.0912, 37.5895, 127.7355



59.3834, 37.5895, 112.9848



55.9293, 37.5895, 6.3957

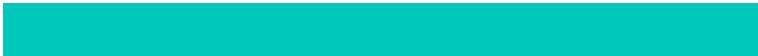


# Rectangle

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



19.3730, 37.5895, 8.7171



15.5568, 37.5895, 53.6651



59.3834, 37.5895, 112.9848



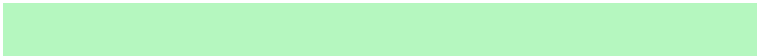
68.4583, 37.5895, 30.3858

# Sweetspot

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



19.3739, 37.5911, 8.7180



61.6891, 80.2539, 61.3352



34.3084, 45.3312, 7.5577



12.9593, 17.3398, 12.5640



92.9021, 97.7402, 106.4391



19.4759, 20.4902, 22.3138



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



19.3739, 37.5911, 8.7180



33.7081, 66.8719, 12.9142



22.9835, 39.0349, 27.7257



9.4660, 10.6725, 10.4375



12.4078, 24.5534, 4.9442



0.5050, 0.9693, 0.2933



# Inverse Universe

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



28.5109, 14.2591, 36.8456



50.1082, 24.4886, 63.0271



23.1382, 12.1100, 8.5536



9.8663, 9.6708, 11.6848



18.4370, 9.0060, 23.3926

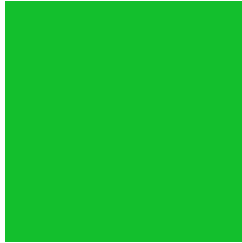


0.7393, 0.3596, 1.0062



# Previews

## White Background



This preview shows how the XYZ color 19.3730, 37.5895, 8.7171 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 19.3730, 37.5895, 8.7171 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 19.3730, 37.5895, 8.7171**

## **Background**



This preview shows how black text looks on a background with the XYZ color 19.3730, 37.5895, 8.7171.



This preview shows how white text looks on a background with the XYZ color 19.3730, 37.5895,



# 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

19.3730, 37.5895, 8.7171

### Protanopia

33.3925, 36.8812, 7.1925

### Deuteranopia

37.4388, 36.6063, 9.3675



## **Tritanopia**

28.7431, 37.3520, 55.5639

# Trichromacy



## Original Color

19.3730, 37.5895, 8.7171



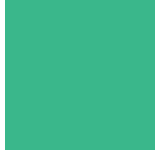
## Protanomaly

23.8485, 34.7173, 7.5420



## Deuteranomaly

25.0087, 33.5995, 8.7817



## Tritanomaly

23.3386, 36.6306, 30.2664

# Monochromacy



## Original Color

19.3730, 37.5895, 8.7171



## Achromatopsia

18.8265, 19.8069, 21.5697



## Achromatomaly

16.4018, 23.9373, 14.5824

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 19.3730, 37.5895, 8.7171 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(19, 191, 45)` looks like.

```
.text, #text, p{  
    color:rgb(19, 191, 45)  
}
```

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(19, 191, 45) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(19, 191, 45) }
```

## Border

The CSS property to change the border of an element to XYZ 19.3730, 37.5895, 8.7171 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(19, 191, 45) }
```



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

```
.border{ border-color:rgb(19, 191, 45) }
```

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

Here you see how a box with a 4 pixel rgb(19, 191, 45) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(19, 191, 45); -webkit-box-  
shadow:4px 4px 4px 4px rgb(19, 191, 45);  
box-shadow:4px 4px 4px 4px rgb(19, 191,  
45) }
```

# Background

The CSS property to change the background color of an element to XYZ 19.3730, 37.5895, 8.7171 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(19, 191, 45) }
```

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

```
.background{ background-color: rgb(19, 191,  
45) }
```

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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