

# Converting Colors

XYZ(37.7115, 64.6622, 18.1223)

Have a look what the booklet for  
XYZ(37.7115, 64.6622, 18.1223)  
contains.

<b>XYZ(37.7314, 64.6713, 18.0836)</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(37.7314, 64.6713,  
18.0836)**

# Conversions

## Conversions Part 1

Format	Color
Hex	68EE50
RGB	104, 238, 80
RGB Percent	41%, 93%, 31%
CMY	0.5922, 0.0666, 0.6863
CMYK	0.56, 0.00, 0.66, 0.07
HSL	111°, 82%, 62%
HSV	111°, 66%, 93%
XYZ	37.7314, 64.6713, 18.0836
YIQ	179.9220, -29.1460, -77.5460

# Conversions

## Conversions Part 2

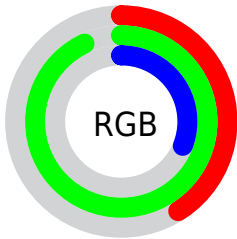
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	80, 238, 214
Decimal	6876752
CIE Lab	84.31, -64.92, 63.02
CIE LCh	84, 90.474, 135.849
Yxy	64.6713, 0.3132, 0.5368
Android (android.graphics.Color)	4285066832 (0xFF68EE50)
YUV	179.9220, -49.2615, -66.5836
Hunter-Lab	80.4185, -56.9822, 42.9605

# Details

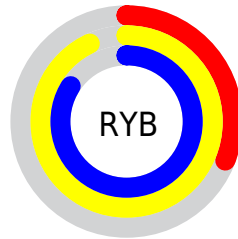
The XYZ color **37.7314, 64.6713, 18.0836** is a dark color, and the websafe version is hex **66FF66**. The color can be described as middle muted chartreuse. A complement of this color would be **46.0367, 26.2090, 83.5248**, and the grayscale version is **43.6093, 45.8804, 49.9638**.

A 20% lighter version of the original color is **55.9298, 81.4046, 36.0574**, and **16.9669, 33.2685, 5.8750** is the 20% darker color. If you saturate the color by 10%, you get **34.9342, 63.3155, 14.1476**, and if you desaturate by 10%, it is **41.4038, 66.4462, 23.6882**.

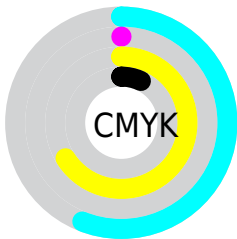
# Distribution



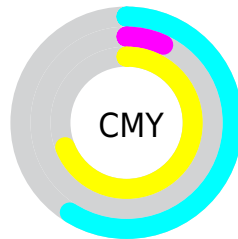
- Red (41%)
- Green (93%)
- Blue (31%)



- Red (31%)
- Yellow (93%)
- Blue (84%)



- Cyan (56%)
- Magenta (0%)
- Yellow (66%)
- Black (7%)




- Cyan (59%)
- Magenta (7%)
- Yellow (69%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.7314, 64.6713, 18.0836 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 37.7314, 64.6713, 18.0836 by changing the saturation by 10% instead.





 37.7314, 64.6713,  
18.0836


 37.7314, 64.6713,  
18.0836


327.7672,  
441.6098, 253.5938

 25.9506, 47.1946,  
10.8400


 71.0028, 111.5772,  
40.9956


 16.9191, 33.1895,  
5.8465


 93.2241, 141.7751,  
57.5010


 10.2718, 22.2717,  
2.6847


 119.6562,  
176.9822, 77.9308

 5.6432, 14.0567,  
0.9357

 150.6646,  
217.5830, 102.7035

 2.6679, 8.1601,  
0.0000

 186.6145,  
263.9617, 132.2375

 0.9807, 4.1976,  
0.0000

227.8713,

 0.0000, 1.7847,

316.5028, 166.9516

0.0000

274.8004,  
375.5907, 207.2641

■ 0.0000, 0.4776,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 37.7314, 64.6713,  
18.0836

■ 37.7314, 64.6713,  
18.0836

■ 34.9342, 63.3155,  
14.1476

■ 41.4038, 66.4462,  
23.6882

■ 32.9323, 62.3358,  
11.6918


■ 46.0129, 68.6627,  
31.1145


■ 31.6379, 61.6938,  
10.4877


■ 51.6201, 71.3513,  
40.5031

■ 31.3085, 61.5294,  
10.2262

■ 58.2799, 74.5375,  
51.9796

 66.0430, 78.2447,  
65.6593

 74.9567, 82.4952,  
81.6489

 85.0655, 87.3098,  
100.0482

 89.8659, 89.6317,  
107.1720

# Harmonies

## Analogous

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



51.5211, 64.6713, 8.6331



37.7314, 64.6713, 18.0836



31.1315, 64.6713, 46.7078

# Triad

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



37.7314, 64.6713, 18.0836



52.5093, 64.6713, 241.1084



106.5593, 64.6713, 44.3428

# Complementary

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



37.7314, 64.6713, 18.0836



46.0367, 26.2090, 83.5248

# 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.



106.9870, 64.6713, 101.0343



37.7314, 64.6713, 18.0836



72.6196, 64.6713, 239.1879

# Square

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



37.7314, 64.6713, 18.0836



38.3185, 64.6713, 183.1870



93.5178, 64.6713, 178.8414



92.4522, 64.6713, 17.1640



# Rectangle

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



37.7314, 64.6713, 18.0836



30.5192, 64.6713, 82.2884



93.5178, 64.6713, 178.8414



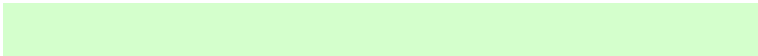
108.3967, 64.6713, 59.7443

# Sweetspot

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



37.7329, 64.6740, 18.0850



73.7371, 89.8388, 70.5810



60.1710, 65.6800, 17.0966



15.2354, 18.9678, 14.1430



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.



37.7329, 64.6740, 18.0850



39.8355, 73.5520, 15.2294



38.0955, 64.5418, 32.5215



15.7893, 17.7716, 16.7478



17.5332, 34.3602, 5.7081



1.5257, 2.8930, 0.4780



# Inverse Universe

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



46.0367, 26.2090, 83.5248



49.9803, 25.4380, 96.8835



46.9232, 27.4331, 48.9083



16.2047, 15.9027, 19.9371



22.2655, 10.4837, 45.9779

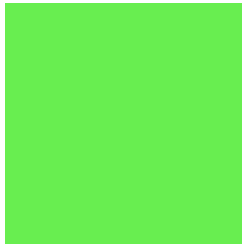


1.9155, 0.9047, 3.8279



# Previews

## White Background



This preview shows how the XYZ color 37.7314, 64.6713, 18.0836 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 37.7314, 64.6713, 18.0836 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

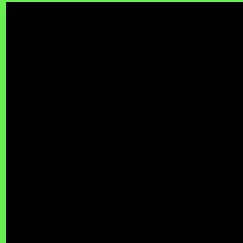
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

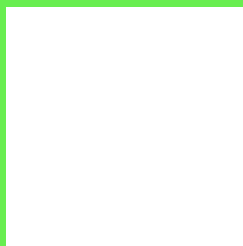
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 37.7314, 64.6713, 18.0836**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.7314, 64.6713, 18.0836.



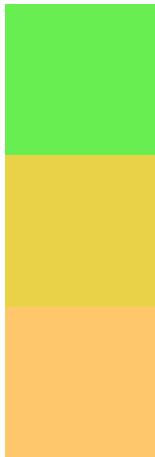
This preview shows how white text looks on a background with the XYZ color 37.7314, 64.6713,



# 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**

37.7314, 64.6713, 18.0836

**Protanopia**

57.5744, 63.3924, 15.3324

**Deuteranopia**

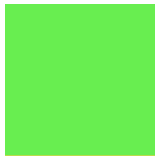
64.3173, 63.1684, 22.7127



## Tritanopia

52.4324, 64.3850, 92.1021

# Trichromacy



## Original Color

37.7314, 64.6713, 18.0836



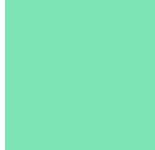
## Protanomaly

47.1129, 62.1335, 16.1665



## Deuteranomaly

49.7713, 60.7309, 20.4083



## Tritanomaly

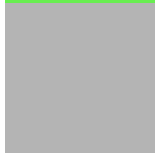
44.6443, 63.2242, 54.1065

# Monochromacy



## Original Color

37.7314, 64.6713, 18.0836



## Achromatopsia

43.3819, 45.6411, 49.7032



## Achromatomaly

38.8696, 50.4623, 34.0771

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.7314, 64.6713, 18.0836 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(104, 238, 80)` looks like.

```
.text, #text, p{  
    color:rgb(104, 238, 80)  
}
```

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(104, 238, 80) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(104, 238, 80) }
```

## Border

The CSS property to change the border of an element to XYZ 37.7314, 64.6713, 18.0836 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(104, 238, 80) }
```



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

```
.border{ border-color:rgb(104, 238, 80) }
```

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

Here you see how a box with a 4 pixel `rgb(104, 238, 80)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(104, 238, 80); -webkit-box-  
shadow:4px 4px 4px 4px rgb(104, 238, 80);  
box-shadow:4px 4px 4px 4px rgb(104, 238,  
80) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.7314, 64.6713, 18.0836 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(104, 238, 80) }
```

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

```
.background{ background-color: rgb(104,  
238, 80) }
```

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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