

# Converting Colors

XYZ(37.0793, 64.6912, 21.6511)

Have a look what the booklet for  
XYZ(37.0793, 64.6912, 21.6511)  
contains.

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# Color

**XYZ(37.0976, 64.7014,  
21.5997)**

# Conversions

## Conversions Part 1

Format	Color
Hex	59EF60
RGB	89, 239, 96
RGB Percent	35%, 94%, 38%
CMY	0.6510, 0.0627, 0.6235
CMYK	0.63, 0.00, 0.60, 0.06
HSL	123°, 82%, 64%
HSV	123°, 63%, 94%
XYZ	37.0976, 64.7014, 21.5997
YIQ	177.8480, -43.4970, -76.2730

# Conversions

## Conversions Part 2

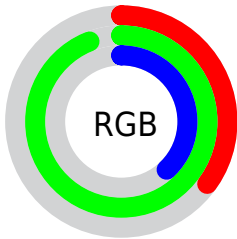
<b>Format</b>	<b>Color</b>
<b>RYB</b>	89, 232, 239
Decimal	5893984
CIELab	84.33, -67.05, 56.34
CIElCh	84, 87.579, 139.962
Yxy	64.7014, 0.3006, 0.5243
Android (android.graphics.Color)	4284084064 (0xFF59EF60)
YUV	177.8480, -40.3511, -77.9197
Hunter-Lab	80.4372, -58.4409, 40.3850

# Details

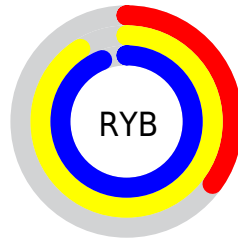
The XYZ color **37.0976, 64.7014, 21.5997** is a dark color, and the websafe version is hex **66FF66**. The color can be described as middle muted spring green. A complement of this color would be **53.7360, 31.3225, 79.5578**, and the grayscale version is **42.4610, 44.6722, 48.6481**.

A 20% lighter version of the original color is **54.4828, 80.5267, 41.9498**, and **17.1110, 33.6091, 7.5928** is the 20% darker color. If you saturate the color by 10%, you get **34.2643, 63.3468, 16.7628**, and if you desaturate by 10%, it is **40.9822, 66.5666, 28.0749**.

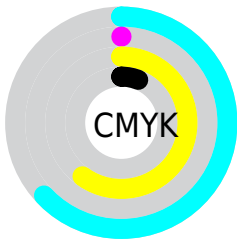
# Distribution



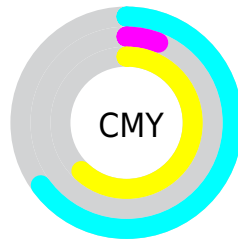
- Red (35%)
- Green (94%)
- Blue (38%)



- Red (35%)
- Yellow (91%)
- Blue (94%)



- Cyan (63%)
- Magenta (0%)
- Yellow (60%)
- Black (6%)



- Cyan (65%)
- Magenta (6%)
- Yellow (62%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.0976, 64.7014, 21.5997 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 37.0976, 64.7014, 21.5997 by changing the saturation by 10% instead.



37.0976, 64.7014,  
21.5997

37.0976, 64.7014,  
21.5997

325.0811,  
441.7182, 273.3336

25.4571, 47.2190,  
13.3676

70.0357, 111.6205,  
46.9772

16.5485, 33.2088,  
7.5484

92.0641, 141.8259,  
64.9596

10.0064, 22.2865,  
3.7238

118.2857,  
177.0411, 87.0292

5.4655, 14.0675,  
1.4751

149.0660,  
217.6506, 113.6045

2.5604, 8.1677,  
0.1993

184.7703,  
264.0386, 145.1040

0.9258, 4.2024,  
0.0000

225.7641,

0.0000, 1.7874,

316.5896, 181.9464

0.0000

272.4125,  
375.6880, 224.5500

■ 0.0000, 0.4793,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 37.0976, 64.7014,  
21.5997

■ 37.0976, 64.7014,  
21.5997

■ 34.2643, 63.3468,  
16.7628

■ 40.9822, 66.5666,  
28.0749

■ 32.3754, 62.4452,  
13.4139


■ 46.0022, 68.9774,  
36.3129


■ 31.3098, 61.9398,  
11.3822


■ 52.2388, 71.9750,  
46.4308

■ 30.9292, 61.7602,  
10.6123

■ 59.7643, 75.5944,  
58.5347

 68.6454, 79.8679,  
72.7228

 78.9441, 84.8256,  
89.0867

 90.1578, 90.2156,  
107.2693

# Harmonies

## Analogous

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



49.6030, 64.7014, 10.1436



37.0976, 64.7014, 21.5997



31.5554, 64.7014, 53.3958

# Triad

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



37.0976, 64.7014, 21.5997



55.2117, 64.7014, 237.0704



103.7227, 64.7014, 39.8688

# Complementary

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



37.0976, 64.7014, 21.5997



53.7360, 31.3225, 79.5578

# 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.



106.1111, 64.7014, 90.7936



37.0976, 64.7014, 21.5997



75.1543, 64.7014, 226.4738

# Square

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



37.0976, 64.7014, 21.5997



40.4571, 64.7014, 188.2301



94.7663, 64.7014, 164.1354



88.7987, 64.7014, 16.1781



# Rectangle

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



37.0976, 64.7014, 21.5997



31.5499, 64.7014, 90.6285



94.7663, 64.7014, 164.1354



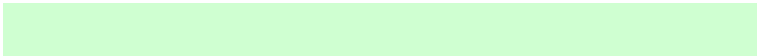
106.1235, 64.7014, 53.5118

# Sweetspot

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



37.0992, 64.7041, 21.6012



72.8520, 89.3148, 73.5996



66.6041, 79.9501, 21.3727



14.9883, 18.8259, 14.7851



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.



37.0992, 64.7041, 21.6012



39.0501, 73.0784, 18.2952



42.1493, 66.7242, 48.1949



15.5958, 17.6683, 16.8945



17.1045, 34.1338, 5.9332



1.4334, 2.8438, 0.5486



# Inverse Universe

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



53.7360, 31.3225, 79.5578



59.7046, 31.5568, 90.1894



45.4287, 27.9995, 35.8119



16.4205, 16.0179, 19.7707



27.4120, 13.2372, 41.6817

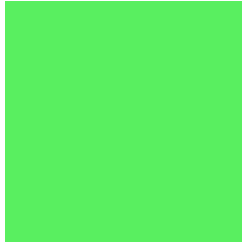


2.2902, 1.1051, 3.5190



# Previews

## White Background



This preview shows how the XYZ color 37.0976, 64.7014, 21.5997 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

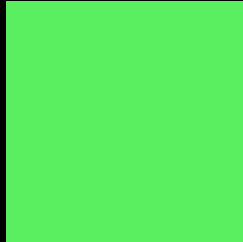
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.0976, 64.7014, 21.5997 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

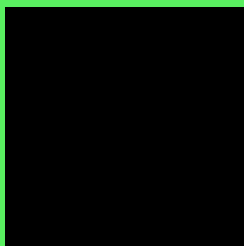
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

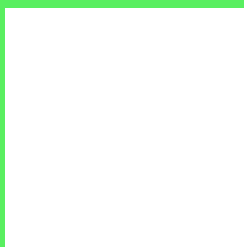
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 37.0976, 64.7014, 21.5997**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.0976, 64.7014, 21.5997.



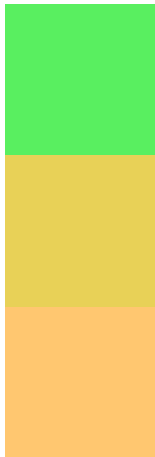
This preview shows how white text looks on a background with the XYZ color 37.0976, 64.7014,



# 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

37.0976, 64.7014, 21.5997

### Protanopia

57.7995, 63.4449, 18.2165

### Deuteranopia

64.5881, 63.2767, 24.1387



## Tritanopia

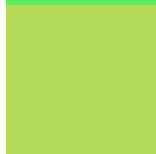
51.2869, 64.1577, 93.6850

# Trichromacy



## Original Color

37.0976, 64.7014, 21.5997



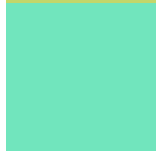
## Protanomaly

46.2611, 61.6279, 19.1300



## Deuteranomaly

49.1538, 60.7358, 22.7682



## Tritanomaly

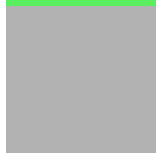
44.0147, 63.2235, 58.0276

# Monochromacy



## Original Color

37.0976, 64.7014, 21.5997



## Achromatopsia

42.3164, 44.5201, 48.4824



## Achromatomaly

37.8536, 49.5577, 35.5875

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.0976, 64.7014, 21.5997 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(89, 239, 96)` looks like.

```
.text, #text, p{  
    color:rgb(89, 239, 96)  
}
```

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(89, 239, 96) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(89, 239, 96) }
```

## Border

The CSS property to change the border of an element to XYZ 37.0976, 64.7014, 21.5997 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(89, 239, 96) }
```



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

```
.border{ border-color:rgb(89, 239, 96) }
```

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

Here you see how a box with a 4 pixel `rgb(89, 239, 96)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(89, 239, 96); -webkit-box-  
shadow:4px 4px 4px 4px rgb(89, 239, 96);  
box-shadow:4px 4px 4px 4px rgb(89, 239,  
96) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.0976, 64.7014, 21.5997 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(89, 239, 96) }
```

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

```
.background{ background-color: rgb(89, 239,  
96) }
```

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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