

# Converting Colors

XYZ(33.8857, 64.9005, 17.3977)

Have a look what the booklet for  
XYZ(33.8857, 64.9005, 17.3977)  
contains.

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# Color

**XYZ(33.8857, 64.9005,  
17.3977)**

# Conversions

## Conversions Part 1

Format	Color
Hex	1FF34B
RGB	31, 243, 75
RGB Percent	12%, 95%, 29%
CMY	0.8784, 0.0470, 0.7059
CMYK	0.87, 0.00, 0.69, 0.05
HSL	132°, 90%, 54%
HSV	132°, 87%, 95%
XYZ	33.8857, 64.9005, 17.3977
YIQ	160.4600, -72.4240, -97.1920

# Conversions

## Conversions Part 2

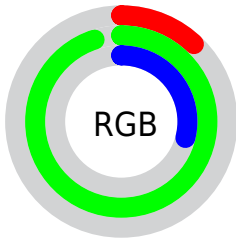
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	31, 207, 243
Decimal	2093899
CIE <sub>Lab</sub>	84.43, -78.36, 64.63
CIE <sub>LCh</sub>	84, 101.576, 140.484
Yxy	64.9005, 0.2917, 0.5586
Android (android.graphics.Color)	4280283979 (0xFF1FF34B)
YUV	160.4600, -42.1318, -113.5364
Hunter-Lab	80.5608, -65.9004, 43.5885

# Details

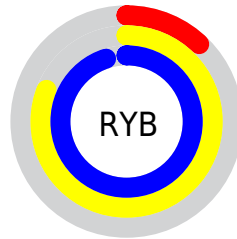
The XYZ color **33.8857, 64.9005, 17.3977** is a dark color, and the websafe version is hex **33FF66**. The color can be described as dark washed green. A complement of this color would be **47.7627, 24.1592, 56.1798**, and the grayscale version is **33.8406, 35.6030, 38.7716**.

A 20% lighter version of the original color is **47.7419, 77.2236, 33.8621**, and **17.3490, 34.6979, 5.7830** is the 20% darker color. If you saturate the color by 10%, you get **32.8435, 64.4301, 14.4145**, and if you desaturate by 10%, it is **35.6763, 65.7374, 21.4598**.

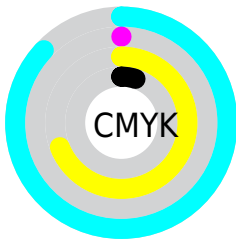
# Distribution



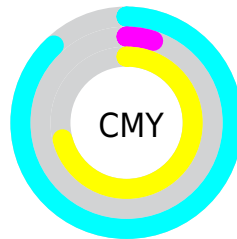
- Red (12%)
- Green (95%)
- Blue (29%)



- Red (12%)
- Yellow (81%)
- Blue (95%)



- Cyan (87%)
- Magenta (0%)
- Yellow (69%)
- Black (5%)



- Cyan (88%)
- Magenta (5%)
- Yellow (71%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.8857, 64.9005, 17.3977 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 33.8857, 64.9005, 17.3977 by changing the saturation by 10% instead.



33.8857, 64.9005,  
17.3977

33.8857, 64.9005,  
17.3977

311.2170,  
442.4343, 249.5750

22.9683, 47.3804,  
10.3535

65.1014, 111.9068,  
39.8083

14.6907, 33.3365,  
5.5253

86.1303, 142.1618,  
56.0117

8.6875, 22.3843,  
2.4946

111.2605,  
177.4305, 76.1054

4.5934, 14.1396,  
0.8373

140.8572,  
218.0974, 100.5077

2.0430, 8.2178,  
0.0000

175.2859,  
264.5468, 129.6373

0.6579, 4.2346,  
0.0000

214.9118,

0.0000, 1.8057,

317.1632, 163.9127

0.0000

260.1004,  
376.3309, 203.7524

■ 0.0000, 0.4907,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 33.8857, 64.9005,  
17.3977

■ 33.8857, 64.9005,  
17.3977

■ 32.8435, 64.4301,  
14.4145


■ 35.6763, 65.7374,  
21.4598


■ 32.6371, 64.3378,  
13.7656


■ 38.3368, 66.9960,  
26.6874


■ 41.9679, 68.7284,  
33.1632

■ 46.6550, 70.9769,  
40.9607

 52.4739, 73.7793,  
50.1480

 59.4932, 77.1697,  
60.7882

 67.7762, 81.1793,  
72.9409

 77.3813, 85.8372,  
86.6620

 88.3637, 91.1706,  
102.0046

# Harmonies

## Analogous

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



47.7040, 64.9005, 6.4604



33.8857, 64.9005, 17.3977



28.0070, 64.9005, 52.0361

# Triad

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



33.8857, 64.9005, 17.3977



54.7823, 64.9005, 277.9504



111.9585, 64.9005, 35.4690

# Complementary

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



33.8857, 64.9005, 17.3977



47.7627, 24.1592, 56.1798

# 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.



115.1853, 64.9005, 93.2825



33.8857, 64.9005, 17.3977



78.1634, 64.9005, 262.9008

# Square

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



33.8857, 64.9005, 17.3977



37.9766, 64.9005, 216.5644



101.6135, 64.9005, 183.0023



93.6454, 64.9005, 11.5952



# Rectangle

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



33.8857, 64.9005, 17.3977



28.0824, 64.9005, 95.7957



101.6135, 64.9005, 183.0023



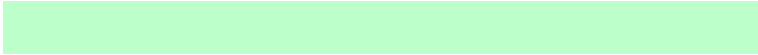
114.9921, 64.9005, 50.3663

# Sweetspot

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



33.8872, 64.9032, 17.3992



67.3873, 86.5866, 69.3250



56.2803, 76.5654, 13.1089



13.7958, 18.2295, 13.9011



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.



33.8872, 64.9032, 17.3992



36.4009, 71.7764, 15.2951



40.7947, 67.6661, 53.7731



16.4229, 18.5283, 18.2453



17.9507, 35.3251, 7.7604



1.6135, 3.1190, 0.8704



# Inverse Universe

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



47.7627, 24.1592, 56.1798



51.9093, 25.5277, 58.1138



39.5013, 20.8546, 12.6757



17.0577, 16.7059, 20.0502



25.5930, 12.5806, 28.8948

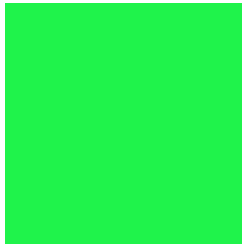


2.2856, 1.1202, 2.7301



# Previews

## White Background



This preview shows how the XYZ color 33.8857, 64.9005, 17.3977 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

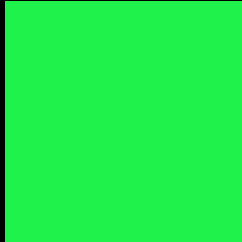
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 33.8857, 64.9005, 17.3977 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 33.8857, 64.9005, 17.3977**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.8857, 64.9005, 17.3977.



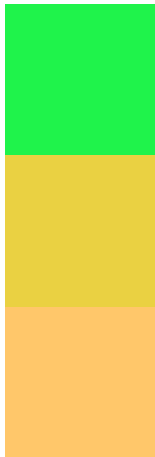
This preview shows how white text looks on a background with the XYZ color 33.8857, 64.9005,



# 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

33.8857, 64.9005, 17.3977

### Protanopia

57.7155, 63.4867, 14.3665

### Deuteranopia

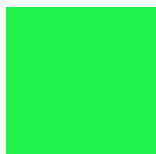
64.2649, 63.1475, 22.4372



## Tritanopia

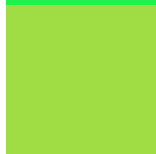
49.4300, 64.3555, 96.2028

# Trichromacy



## Original Color

33.8857, 64.9005, 17.3977



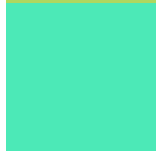
## Protanomaly

41.4278, 59.6162, 14.9538



## Deuteranomaly

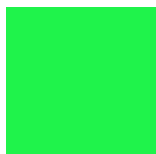
43.8216, 58.4258, 19.7941



## Tritanomaly

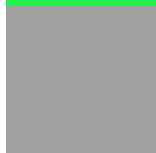
40.6666, 63.2332, 54.8616

# Monochromacy



## Original Color

33.8857, 64.9005, 17.3977



## Achromatopsia

33.4132, 35.1533, 38.2819



## Achromatomaly

29.1860, 41.9226, 27.3225

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.8857, 64.9005, 17.3977 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(31, 243, 75)` looks like.

```
.text, #text, p{  
    color:rgb(31, 243, 75)  
}
```

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(31, 243, 75) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(31, 243, 75) }
```

## Border

The CSS property to change the border of an element to XYZ 33.8857, 64.9005, 17.3977 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(31, 243, 75) }
```



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

```
.border{ border-color:rgb(31, 243, 75) }
```

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

Here you see how a box with a 4 pixel `rgb(31, 243, 75)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(31, 243, 75); -webkit-box-  
shadow:4px 4px 4px 4px rgb(31, 243, 75);  
box-shadow:4px 4px 4px 4px rgb(31, 243,  
75) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.8857, 64.9005, 17.3977 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(31, 243, 75) }
```

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

```
.background{ background-color: rgb(31, 243,  
75) }
```

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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