

# Converting Colors

XYZ(30.8313, 60.8534, 11.5657)

Have a look what the booklet for  
XYZ(30.8313, 60.8534, 11.5657)  
contains.

<b>XYZ(30.8082, 60.8068, 11.5520)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(30.8082, 60.8068,  
11.5520)**

# Conversions

## Conversions Part 1

Format	Color
Hex	12ED21
RGB	18, 237, 33
RGB Percent	7%, 93%, 13%
CMY	0.9294, 0.0706, 0.8705
CMYK	0.92, 0.00, 0.86, 0.07
HSL	124°, 86%, 50%
HSV	124°, 92%, 93%
XYZ	30.8082, 60.8068, 11.5520
YIQ	148.2630, -65.0400, -109.8720

# Conversions

## Conversions Part 2

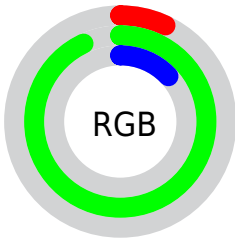
Format	Color
<a href="#">RYB</a>	<a href="#">18, 223, 237</a>
Decimal	<a href="#">1240353</a>
CIELab	<a href="#">82.27, -80.14, 74.76</a>
CIELCh	<a href="#">82, 109.593, 136.988</a>
Yxy	<a href="#">60.8068, 0.2986, 0.5894</a>
Android (android.graphics.Color)	<a href="#">4279430433 (0xFF12ED21)</a>
YUV	<a href="#">148.2630, -56.8247, -114.2407</a>
Hunter-Lab	<a href="#">77.9787, -65.9401, 45.8017</a>

# Details

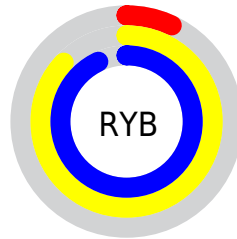
The XYZ color **30.8082, 60.8068, 11.5520** is a dark color, and the websafe version is hex **33FF33**. The color can be described as dark washed green. A complement of this color would be **48.3268, 23.7115, 71.1325**, and the grayscale version is **28.5099, 29.9946, 32.6641**.

A 20% lighter version of the original color is **45.3964, 76.2220, 24.3763**, and **16.1201, 32.2402, 5.3734** is the 20% darker color. If you saturate the color by 10%, you get **30.3808, 60.6090, 10.5973**, and if you desaturate by 10%, it is **31.9199, 61.3335, 13.7819**.

# Distribution



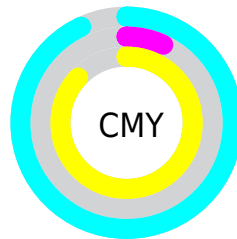
- Red (7%)
- Green (93%)
- Blue (13%)



- Red (7%)
- Yellow (87%)
- Blue (93%)



- Cyan (92%)
- Magenta (0%)
- Yellow (86%)
- Black (7%)




- Cyan (93%)
- Magenta (7%)
- Yellow (87%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 30.8082, 60.8068, 11.5520 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 30.8082, 60.8068, 11.5520 by changing the saturation by 10% instead.





 30.8082, 60.8068,  
11.5520


 30.8082, 60.8068,  
11.5520


297.4964,  
427.5653, 212.2880


 20.6040, 44.0693,  
6.3206


 60.3159, 105.9991,  
29.3286

 12.9456, 30.7250,  
2.9691


 80.3500, 135.2228,  
42.7108


 7.4679, 20.3895,  
1.0789


 104.3915,  
169.3772, 59.6471

 3.8053, 12.6785,  
0.0000

 132.8057,  
208.8468, 80.5560

 1.5926, 7.2075,  
0.0000

 165.9579,  
254.0160, 105.8560

 0.3876, 3.5922,  
0.0000

 204.2135,

 0.0000, 1.4482,

305.2692, 135.9656

0.0000

247.9379,  
362.9909, 171.3034

■ 0.0000, 0.2518,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 30.8082, 60.8068,  
11.5520

■ 30.8082, 60.8068,  
11.5520


■ 30.3808, 60.6090,  
10.5973


■ 31.9199, 61.3335,  
13.7819


■ 33.8376, 62.2466,  
17.2832


■ 36.6789, 63.6053,  
22.2088


■ 40.5410, 65.4569,  
28.6891

 45.5087, 67.8426,  
36.8394

 51.6580, 70.7993,  
46.7646

 59.0582, 74.3608,  
58.5607

 67.7730, 78.5580,  
72.3168

 77.8620, 83.4198,  
88.1165

# Harmonies

## Analogous

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



45.6544, 60.8068, 3.6741



30.8082, 60.8068, 11.5520



24.1804, 60.8068, 41.2910

# Triad

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



30.8082, 60.8068, 11.5520



48.2722, 60.8068, 286.8308



112.1859, 60.8068, 35.3191

# Complementary

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



30.8082, 60.8068, 11.5520



48.3268, 23.7115, 71.1325

# 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.



113.4441, 60.8068, 99.5500



30.8082, 60.8068, 11.5520



71.9171, 60.8068, 280.7429

# Square

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



30.8082, 60.8068, 11.5520



32.2780, 60.8068, 211.5792



97.1923, 60.8068, 198.1958



94.1128, 60.8068, 9.6934



# Rectangle

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



30.8082, 60.8068, 11.5520



23.7254, 60.8068, 83.1010



97.1923, 60.8068, 198.1958



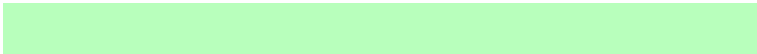
114.7322, 60.8068, 51.7756

# Sweetspot

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



30.8096, 60.8093, 11.5534



64.5619, 85.3132, 60.9209



60.6428, 76.2080, 12.0858



13.0490, 17.8901, 11.8082



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.



30.8096, 60.8093, 11.5534



35.8650, 71.5620, 12.4727



35.4252, 62.6556, 35.8586



14.9102, 16.8789, 16.2100



16.6029, 33.0956, 5.8741



1.3184, 2.6047, 0.5387



# Inverse Universe

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



48.3268, 23.7115, 71.1325



56.6025, 27.4050, 82.8277



38.1180, 19.6280, 17.3738



15.6676, 15.2949, 18.8011



26.1955, 12.6809, 38.4265

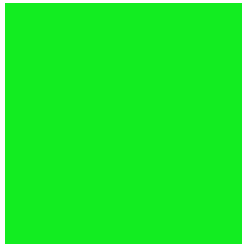


2.0704, 1.0011, 3.0881



# Previews

## White Background



This preview shows how the XYZ color 30.8082, 60.8068, 11.5520 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 30.8082, 60.8068, 11.5520 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

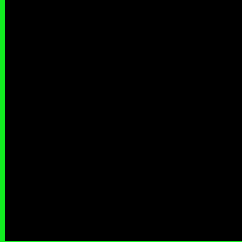
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 30.8082, 60.8068, 11.5520

## Background



This preview shows how black text looks on a background with the XYZ color 30.8082, 60.8068, 11.5520.



This preview shows how white text looks on a background with the XYZ color 30.8082, 60.8068,



# 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

30.8082, 60.8068, 11.5520

### Protanopia

53.4957, 59.2638, 9.3786

### Deuteranopia

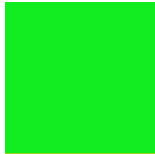
60.5383, 59.0963, 12.4910



## Tritanopia

46.2813, 60.0688, 90.0441

# Trichromacy



## Original Color

30.8082, 60.8068, 11.5520



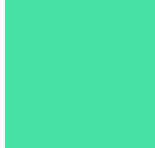
## Protanomaly

37.4358, 55.3509, 9.6880



## Deuteranomaly

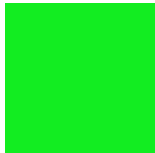
39.2800, 53.6669, 11.3061



## Tritanomaly

36.3330, 58.3391, 43.9960

# Monochromacy



## Original Color

30.8082, 60.8068, 11.5520



## Achromatopsia

28.1479, 29.6138, 32.2495



## Achromatomaly

24.2896, 36.4498, 19.3910

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 30.8082, 60.8068, 11.5520 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(18, 237, 33)` looks like.

```
.text, #text, p{  
    color:rgb(18, 237, 33)  
}
```

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(18, 237, 33) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(18, 237, 33) }
```

## Border

The CSS property to change the border of an element to XYZ 30.8082, 60.8068, 11.5520 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(18, 237, 33) }
```



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

```
.border{ border-color:rgb(18, 237, 33) }
```

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

Here you see how a box with a 4 pixel rgb(18, 237, 33) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(18, 237, 33); -webkit-box-  
shadow:4px 4px 4px 4px rgb(18, 237, 33);  
box-shadow:4px 4px 4px 4px rgb(18, 237,  
33) }
```

# Background

The CSS property to change the background color of an element to XYZ 30.8082, 60.8068, 11.5520 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(18, 237, 33) }
```

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

```
.background{ background-color: rgb(18, 237,  
33) }
```

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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