

# Converting Colors

XYZ(18.4092, 35.8157, 8.4180)

Have a look what the booklet for  
XYZ(18.4092, 35.8157, 8.4180)  
contains.

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# Color

**XYZ(18.4100, 35.8157,  
8.4254)**

# Conversions

## Conversions Part 1

Format	Color
Hex	0DBB2D
RGB	13, 187, 45
RGB Percent	5%, 73%, 18%
CMY	0.9490, 0.2667, 0.8235
CMYK	0.93, 0.00, 0.76, 0.27
HSL	131°, 87%, 39%
HSV	131°, 93%, 73%
XYZ	18.4100, 35.8157, 8.4254
YIQ	118.7860, -58.1220, -81.0500

# Conversions

## Conversions Part 2

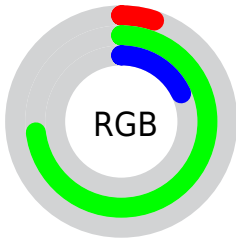
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">13, 160, 187</a>
Decimal	<a href="#">899885</a>
CIELab	<a href="#">66.38, -65.79, 56.81</a>
CIELCh	<a href="#">66, 86.918, 139.189</a>
Yxy	<a href="#">35.8157, 0.2938, 0.5717</a>
Android (android.graphics.Color)	<a href="#">4279089965 (0xFF0DBB2D)</a>
YUV	<a href="#">118.7860, -36.3765, -92.7743</a>
Hunter-Lab	<a href="#">59.8462, -49.8204, 33.5453</a>

# Details

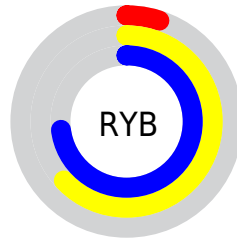
The XYZ color **18.4100, 35.8157, 8.4254** is a dark color, and the websafe version is hex **33CC33**. A complement of this color would be **26.5550, 13.2199, 32.1638**, and the grayscale version is **17.5926, 18.5088, 20.1561**.

A 20% lighter version of the original color is **40.3682, 69.0111, 23.5048**, and **8.2513, 16.5025, 2.7504** is the 20% darker color. If you saturate the color by 10%, you get **18.0655, 35.6598, 7.4741**, and if you desaturate by 10%, it is **19.1803, 36.1735, 10.2833**.

# Distribution



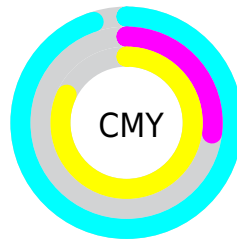
- Red (5%)
- Green (73%)
- Blue (18%)



- Red (5%)
- Yellow (63%)
- Blue (73%)



- Cyan (93%)
- Magenta (0%)
- Yellow (76%)
- Black (27%)




- Cyan (95%)
- Magenta (27%)
- Yellow (82%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 18.4100, 35.8157, 8.4254 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 18.4100, 35.8157, 8.4254 by changing the saturation by 10% instead.





 18.4100, 35.8157,  
8.4254

 18.4100, 35.8157,  
8.4254


236.1731,  
328.1543, 189.0890


 11.3462, 24.2919,  
4.2767


 40.2594, 68.7475,  
23.3481


 6.3692, 15.5503,  
1.7783


 55.7756, 90.9243,  
34.9591


 3.1136, 9.2065,  
0.4136


 74.8401, 117.4209,  
49.8946

 1.2141, 4.8761,  
0.0000

 97.8182, 148.6216,  
68.5732

 0.1175, 2.1748,  
0.0000

 125.0751,  
184.9109, 91.4134

 0.0000, 0.7062,  
0.0000

 156.9764,

 0.0000, 0.0000,

226.6732, 118.8338

0.0000

193.8873,  
274.2929, 151.2528

■ 18.4100, 35.8157,  
8.4254

■ 18.4100, 35.8157,  
8.4254

■ 18.0655, 35.6598,  
7.4741

■ 19.1803, 36.1735,  
10.2833

■ 20.3947, 36.7458,  
12.7694

■ 22.1120, 37.5628,  
15.9347

■ 24.3813, 38.6490,  
19.8242

■ 27.2456, 40.0255,  
24.4790

■ 30.7434, 41.7115,  
29.9370

■ 34.9103, 43.7246,  
36.2339

■ 39.7788, 46.0808,  
43.4028

■ 45.3797, 48.7952,  
51.4754

# Harmonies

## Analogous

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



26.4684, 35.8157, 2.9316



18.4100, 35.8157, 8.4254



14.9177, 35.8157, 27.0510

# Triad

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



18.4100, 35.8157, 8.4254



29.5649, 35.8157, 160.0612



63.5300, 35.8157, 19.8810

# Complementary

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



18.4100, 35.8157, 8.4254



26.5550, 13.2199, 32.1638

# 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.



64.9737, 35.8157, 54.0261



18.4100, 35.8157, 8.4254



42.9373, 35.8157, 153.2209

# Square

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



18.4100, 35.8157, 8.4254



20.1781, 35.8157, 122.1578



56.6844, 35.8157, 106.9974



53.1330, 35.8157, 6.0330

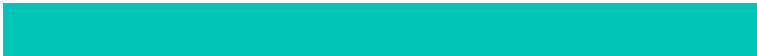


# Rectangle

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



18.4100, 35.8157, 8.4254



14.8469, 35.8157, 51.5842



56.6844, 35.8157, 106.9974



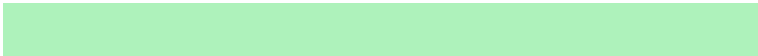
65.1629, 35.8157, 28.6449

# Sweetspot

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



18.4108, 35.8172, 8.4262



58.3342, 76.2835, 58.6043



31.3812, 42.5500, 6.9399



12.1632, 16.4692, 11.8657



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438



# Same Dimension

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



18.4108, 35.8172, 8.4262



32.2917, 63.8392, 13.0580



22.0954, 37.2910, 27.8287



9.4785, 10.6775, 10.5035



12.4666, 24.5769, 5.2541



0.5104, 0.9715, 0.3222



# Inverse Universe

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



26.5550, 13.2199, 32.1638



46.8620, 22.9848, 55.2099



21.6849, 11.2718, 6.5183



9.8526, 9.6654, 11.6130



18.0842, 8.8649, 21.5350

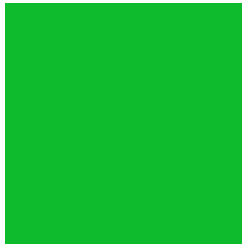


0.7283, 0.3552, 0.9483



# Previews

## White Background



This preview shows how the XYZ color 18.4100, 35.8157, 8.4254 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 18.4100, 35.8157, 8.4254 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 18.4100, 35.8157, 8.4254**

## **Background**



This preview shows how black text looks on a background with the XYZ color 18.4100, 35.8157, 8.4254.



This preview shows how white text looks on a background with the XYZ color 18.4100, 35.8157,



# 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

18.4100, 35.8157, 8.4254

### Protanopia

31.7430, 34.9849, 6.9134

### Deuteranopia

35.8371, 35.0516, 9.0145



## Tritanopia

27.3550, 35.5226, 52.9917

# Trichromacy



## Original Color

18.4100, 35.8157, 8.4254



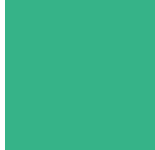
## Protanomaly

22.3827, 32.8315, 7.2552



## Deuteranomaly

23.6367, 32.0821, 8.4367



## Tritanomaly

22.0854, 34.8020, 28.8460

# Monochromacy



## Original Color

18.4100, 35.8157, 8.4254



## Achromatopsia

17.5343, 18.4475, 20.0893



## Achromatomaly

15.2133, 22.4247, 13.6518

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 18.4100, 35.8157, 8.4254 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(13, 187, 45)` looks like.

```
.text, #text, p{  
    color:rgb(13, 187, 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(13, 187, 45) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(13, 187, 45) }
```

## Border

The CSS property to change the border of an element to XYZ 18.4100, 35.8157, 8.4254 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(13, 187, 45) }
```



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

```
.border{ border-color:rgb(13, 187, 45) }
```

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

Here you see how a box with a 4 pixel rgb(13, 187, 45) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(13, 187, 45); -webkit-box-  
shadow:4px 4px 4px 4px rgb(13, 187, 45);  
box-shadow:4px 4px 4px 4px rgb(13, 187,  
45) }
```

# Background

The CSS property to change the background color of an element to XYZ 18.4100, 35.8157, 8.4254 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(13, 187, 45) }
```

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

```
.background{ background-color: rgb(13, 187,  
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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