

# Converting Colors

XYZ(18.8348, 35.4416, 6.9157)

Have a look what the booklet for  
XYZ(18.8348, 35.4416, 6.9157)  
contains.

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# Color

**XYZ(18.8252, 35.4347,  
6.9460)**

# Conversions

## Conversions Part 1

Format	Color
Hex	31B91C
RGB	49, 185, 28
RGB Percent	19%, 73%, 11%
CMY	0.8078, 0.2745, 0.8902
CMYK	0.74, 0.00, 0.85, 0.27
HSL	112°, 74%, 42%
HSV	112°, 85%, 73%
XYZ	18.8252, 35.4347, 6.9460
YIQ	126.4380, -30.6590, -77.6590

# Conversions

## Conversions Part 2

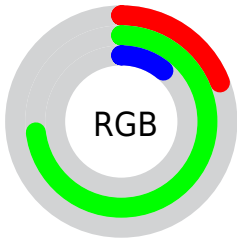
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">28, 185, 164</a>
Decimal	<a href="#">3258652</a>
CIELab	<a href="#">66.09, -62.36, 61.61</a>
CIELCh	<a href="#">66, 87.666, 135.347</a>
Yxy	<a href="#">35.4347, 0.3076, 0.5789</a>
Android (android.graphics.Color)	<a href="#">4281448732 (0xFF31B91C)</a>
YUV	<a href="#">126.4380, -48.5299, -67.9131</a>
Hunter-Lab	<a href="#">59.5271, -47.7224, 34.7506</a>

# Details

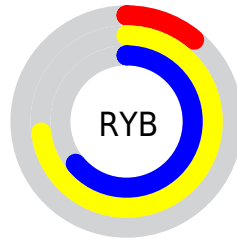
The XYZ color **18.8252, 35.4347, 6.9460** is a dark color, and the websafe version is hex **33CC33**. A complement of this color would be **24.4849, 12.2276, 46.9704**, and the grayscale version is **20.1496, 21.1990, 23.0857**.

A 20% lighter version of the original color is **40.8914, 68.0074, 20.4227**, and **7.9826, 15.9653, 2.6609** is the 20% darker color. If you saturate the color by 10%, you get **18.0281, 35.0431, 6.0869**, and if you desaturate by 10%, it is **20.0347, 36.0254, 8.5354**.

# Distribution



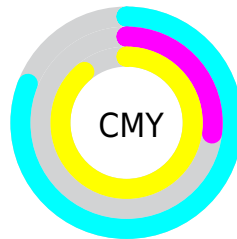
- Red (19%)
- Green (73%)
- Blue (11%)



- Red (11%)
- Yellow (73%)
- Blue (64%)



- Cyan (74%)
- Magenta (0%)
- Yellow (85%)
- Black (27%)




- Cyan (81%)
- Magenta (27%)
- Yellow (89%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 18.8252, 35.4347, 6.9460 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 18.8252, 35.4347, 6.9460 by changing the saturation by 10% instead.




 18.8252, 35.4347,  
6.9460


 18.8252, 35.4347,  
6.9460


238.4387,  
326.4829, 176.8281


 11.6473, 23.9979,  
3.3504

 40.9577, 68.1586,  
20.3755


 6.5745, 15.3321,  
1.2762


 56.6430, 90.2146,  
31.0465


 3.2414, 9.0528,  
0.0422


 75.8948, 116.5791,  
44.9131

 1.2827, 4.7756,  
0.0000

 99.0784, 147.6364,  
62.3937

 0.1702, 2.1162,  
0.0000

 126.5593,  
183.7711, 83.9070

 0.0000, 0.6737,  
0.0000

 158.7027,

 0.0000, 0.0000,

225.3675, 109.8715

0.0000

195.8741,  
272.8100, 140.7057

■ 18.8252, 35.4347,  
6.9460

■ 18.8252, 35.4347,  
6.9460

■ 18.0281, 35.0431,  
6.0869

■ 20.0347, 36.0254,  
8.5354

■ 17.7441, 34.9027,  
5.8017

■ 21.7020, 36.8328,  
10.9681

■ 23.8691, 37.8776,  
14.3403

■ 26.5723, 39.1767,  
18.7343

■ 29.8445, 40.7454,  
24.2238

■ 33.7160, 42.5980,  
30.8754

■ 38.2149, 44.7477,  
38.7506

■ 43.3675, 47.2066,  
47.9063

■ 49.1985, 49.9865,  
58.3961

# Harmonies

## Analogous

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



27.4790, 35.4347, 2.5188



18.8252, 35.4347, 6.9460



14.8012, 35.4347, 23.1387

# Triad

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



18.8252, 35.4347, 6.9460



27.7353, 35.4347, 157.8215



64.0495, 35.4347, 22.5478

# Complementary

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



18.8252, 35.4347, 6.9460



24.4849, 12.2276, 46.9704

# 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.



64.1699, 35.4347, 59.7102



18.8252, 35.4347, 6.9460



40.7492, 35.4347, 157.2479

# Square

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



18.8252, 35.4347, 6.9460



18.9709, 35.4347, 115.3617



54.8120, 35.4347, 114.0930



54.5162, 35.4347, 6.7522



# Rectangle

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



18.8252, 35.4347, 6.9460



14.3973, 35.4347, 45.6563



54.8120, 35.4347, 114.0930



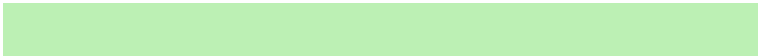
65.2601, 35.4347, 32.2797

# Sweetspot

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



18.8260, 35.4362, 6.9468



59.9739, 76.0942, 54.5866



33.0425, 36.0473, 6.3155



12.3859, 16.1445, 10.8294



88.6918, 93.3107, 101.6153



17.8044, 18.7317, 20.3988



# Same Dimension

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



18.8260, 35.4362, 6.9468



31.6691, 62.4516, 10.3852



19.3885, 35.5702, 14.0187



8.9991, 10.1162, 9.5852



12.1181, 23.7834, 3.9520



0.4634, 0.8571, 0.1410



# Inverse Universe

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



24.4849, 12.2276, 46.9704



41.5975, 19.6326, 83.8016



24.4568, 12.7588, 22.3122



9.2597, 9.1002, 11.3479



15.9144, 7.5154, 31.8649

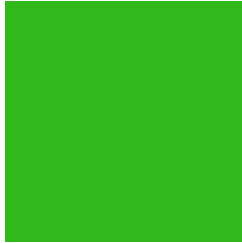


0.5940, 0.2820, 1.1249



# Previews

## White Background



This preview shows how the XYZ color 18.8252, 35.4347, 6.9460 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 18.8252, 35.4347, 6.9460 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

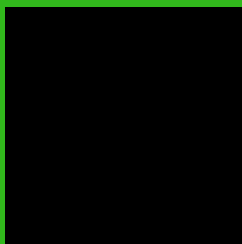
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 18.8252, 35.4347, 6.9460**

## **Background**



This preview shows how black text looks on a background with the XYZ color 18.8252, 35.4347, 6.9460.



This preview shows how white text looks on a background with the XYZ color 18.8252, 35.4347,



# 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

18.8252, 35.4347, 6.9460

### Protanopia

31.5195, 34.8954, 5.7361

### Deuteranopia

35.3991, 34.6178, 7.5055



## Tritanopia

27.7353, 35.1741, 51.7818

# Trichromacy



## Original Color

18.8252, 35.4347, 6.9460



## Protanomaly

23.8583, 33.3433, 5.9891



## Deuteranomaly

25.1573, 32.3673, 6.9291



## Tritanomaly

22.5086, 34.4851, 26.2388

# Monochromacy



## Original Color

18.8252, 35.4347, 6.9460



## Achromatopsia

19.8309, 20.8637, 22.7206



## Achromatomaly

17.3162, 24.2023, 13.4317

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 18.8252, 35.4347, 6.9460 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(49, 185, 28)` looks like.

```
.text, #text, p{  
    color:rgb(49, 185, 28)  
}
```

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(49, 185, 28) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 185, 28) }
```

## Border

The CSS property to change the border of an element to XYZ 18.8252, 35.4347, 6.9460 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(49, 185, 28) }
```



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

```
.border{ border-color:rgb(49, 185, 28) }
```

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

Here you see how a box with a 4 pixel rgb(49, 185, 28) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 185, 28); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 185, 28);  
box-shadow:4px 4px 4px 4px rgb(49, 185,  
28) }
```

# Background

The CSS property to change the background color of an element to XYZ 18.8252, 35.4347, 6.9460 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 185, 28) }
```

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

```
.background{ background-color: rgb(49, 185,  
28) }
```

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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