

# Converting Colors

XYZ(31.8194, 53.2004, 16.4662)

Have a look what the booklet for  
XYZ(31.8194, 53.2004, 16.4662)  
contains.

<b>XYZ(31.6649, 52.9865, 16.3431)</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(31.6649, 52.9865,  
16.3431)**

# Conversions

## Conversions Part 1

Format	Color
Hex	65D951
RGB	101, 217, 81
RGB Percent	40%, 85%, 32%
CMY	0.6039, 0.1490, 0.6823
CMYK	0.53, 0.00, 0.63, 0.15
HSL	111°, 64%, 58%
HSV	111°, 63%, 85%
XYZ	31.6649, 52.9865, 16.3431
YIQ	166.8120, -25.4800, -66.8880

# Conversions

## Conversions Part 2

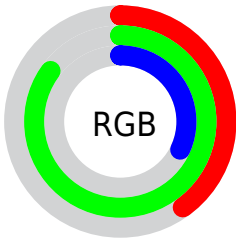
Format	Color
<a href="#">RYB</a>	<a href="#">81, 217, 197</a>
Decimal	<a href="#">6674769</a>
CIELab	<a href="#">77.87, -57.98, 55.55</a>
CIELCh	<a href="#">78, 80.298, 136.227</a>
Yxy	<a href="#">52.9865, 0.3135, 0.5246</a>
Android (android.graphics.Color)	<a href="#">4284864849 (0xFF65D951)</a>
YUV	<a href="#">166.8120, -42.3053, -57.7171</a>
Hunter-Lab	<a href="#">72.7918, -49.7371, 37.6426</a>

# Details

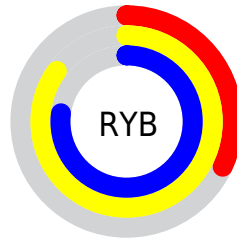
The XYZ color **31.6649, 52.9865, 16.3431** is a dark color, and the websafe version is hex **66CC33**. The color can be described as middle muted chartreuse. A complement of this color would be **38.4957, 22.7669, 68.0140**, and the grayscale version is **36.8486, 38.7676, 42.2179**.

A 20% lighter version of the original color is **54.8311, 80.8463, 35.6367**, and **13.4251, 25.8237, 5.0360** is the 20% darker color. If you saturate the color by 10%, you get **29.1338, 51.7627, 12.6348**, and if you desaturate by 10%, it is **34.9253, 54.5594, 21.4446**.

# Distribution



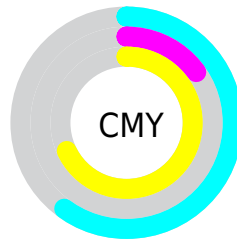
- Red (40%)
- Green (85%)
- Blue (32%)



- Red (32%)
- Yellow (85%)
- Blue (77%)



- Cyan (53%)
- Magenta (0%)
- Yellow (63%)
- Black (15%)




- Cyan (60%)
- Magenta (15%)
- Yellow (68%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.6649, 52.9865, 16.3431 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 31.6649, 52.9865, 16.3431 by changing the saturation by 10% instead.




 31.6649, 52.9865,  
16.3431


 31.6649, 52.9865,  
16.3431


301.3624,  
398.2333, 243.2723


 21.2600, 37.7920,  
9.6103


 61.6541, 94.5845,  
37.9679


 13.4277, 25.8213,  
5.0391


 81.9692, 121.7568,  
53.6969


 7.8028, 16.6900,  
2.2111

 106.3183,  
153.6905, 73.2618

 4.0197, 10.0137,  
0.6808

 135.0668,  
190.7699, 97.0810

 1.7133, 5.4080,  
0.0000

 168.5801,  
233.3795, 125.5731

 0.4646, 2.4886,  
0.0000

207.2236,

 0.0000, 0.8709,

281.9037, 159.1567

0.0000

251.3626,  
336.7268, 198.2502

■ 0.0000, 0.0000,  
0.0000

■ 31.6649, 52.9865,  
16.3431

■ 31.6649, 52.9865,  
16.3431

■ 29.1338, 51.7627,  
12.6348

■ 34.9253, 54.5594,  
21.4446

■ 27.2705, 50.8546,  
10.1790

■ 38.9622, 56.4984,  
28.0551

■ 26.0098, 50.2336,  
8.8116

■ 43.8235, 58.8274,  
36.2822

■ 25.4067, 49.9334,  
8.2991

■ 49.5518, 61.5663,  
46.2229

■ 56.1869, 64.7338,  
57.9663

■ 63.7662, 68.3472,  
71.5955

■ 72.3247, 72.4230,  
87.1884

■ 81.8958, 76.9768,  
104.8185

■ 84.1039, 78.1079,  
105.2513

# Harmonies

## Analogous

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



42.4391, 52.9865, 8.2821



31.6649, 52.9865, 16.3431



26.4921, 52.9865, 39.5683

# Triad

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



31.6649, 52.9865, 16.3431



43.5553, 52.9865, 187.7483



84.9875, 52.9865, 36.8695

# Complementary

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



31.6649, 52.9865, 16.3431



38.4957, 22.7669, 68.0140

# 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.



85.4594, 52.9865, 80.6484



31.6649, 52.9865, 16.3431



59.2145, 52.9865, 185.6659

# Square

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



31.6649, 52.9865, 16.3431



32.3360, 52.9865, 144.5716



75.2650, 52.9865, 139.8272



74.0844, 52.9865, 15.2470



# Rectangle

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



31.6649, 52.9865, 16.3431



26.0480, 52.9865, 67.5181



75.2650, 52.9865, 139.8272



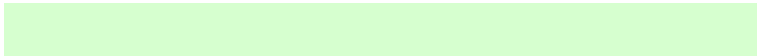
86.4381, 52.9865, 48.8710

# Sweetspot

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



31.6662, 52.9887, 16.3443



74.6039, 90.2501, 72.2314



49.9784, 55.0995, 15.7865



15.4018, 19.0467, 14.4633



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.



31.6662, 52.9887, 16.3443



41.0789, 74.1559, 16.9617



32.1438, 52.9519, 29.1578



13.0638, 14.6976, 13.8740



15.4336, 30.2538, 5.0261



1.0576, 1.9897, 0.3283



# Inverse Universe

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



38.4957, 22.7669, 68.0140



51.5102, 27.1701, 97.1372



38.7587, 23.5176, 40.2319



13.4164, 13.1728, 16.4876



19.7771, 9.3197, 40.4949

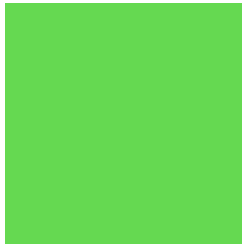


1.3336, 0.6308, 2.6259



# Previews

## White Background



This preview shows how the XYZ color 31.6649, 52.9865, 16.3431 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 31.6649, 52.9865, 16.3431 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 31.6649, 52.9865, 16.3431**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.6649, 52.9865, 16.3431.



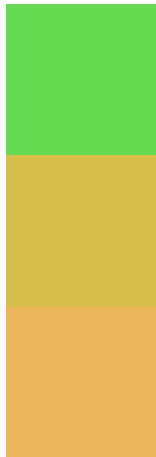
This preview shows how white text looks on a background with the XYZ color 31.6649, 52.9865, 16.3431.



# 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

31.6649, 52.9865, 16.3431

### Protanopia

47.3074, 51.9021, 14.0033

### Deuteranopia

53.2518, 52.0615, 17.3674



## Tritanopia

43.3275, 52.5463, 75.5690

# Trichromacy



## Original Color

31.6649, 52.9865, 16.3431



## Protanomaly

39.0071, 50.6150, 14.7350



## Deuteranomaly

41.7701, 50.2996, 16.7398



## Tritanomaly

37.3251, 51.8983, 45.5862

# Monochromacy



## Original Color

31.6649, 52.9865, 16.3431



## Achromatopsia

36.7301, 38.6429, 42.0822



## Achromatomaly

33.1206, 42.3151, 29.7146

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.6649, 52.9865, 16.3431 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(101, 217, 81)` looks like.

```
.text, #text, p{  
    color:rgb(101, 217, 81)  
}
```

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(101, 217, 81) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(101, 217, 81) }
```

## Border

The CSS property to change the border of an element to XYZ 31.6649, 52.9865, 16.3431 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(101, 217, 81) }
```



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

```
.border{ border-color:rgb(101, 217, 81) }
```

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

Here you see how a box with a 4 pixel `rgb(101, 217, 81)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(101, 217, 81); -webkit-box-  
shadow:4px 4px 4px 4px rgb(101, 217, 81);  
box-shadow:4px 4px 4px 4px rgb(101, 217,  
81) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.6649, 52.9865, 16.3431 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(101, 217, 81) }
```

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

```
.background{ background-color: rgb(101,  
217, 81) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor