

# Converting Colors

XYZ(31.9352, 41.5686, 69.4723)

Have a look what the booklet for  
XYZ(31.9352, 41.5686, 69.4723)  
contains.

<b>XYZ(31.8305, 41.4015, 69.2644)</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(31.8305, 41.4015,  
69.2644)**

# Conversions

## Conversions Part 1

Format	Color
Hex	3FBBD5
RGB	63, 187, 213
RGB Percent	25%, 73%, 84%
CMY	0.7529, 0.2667, 0.1647
CMYK	0.70, 0.12, 0.00, 0.16
HSL	190°, 64%, 54%
HSV	190°, 70%, 84%
XYZ	31.8305, 41.4015, 69.2644
YIQ	152.8880, -82.2500, -18.2020

# Conversions

## Conversions Part 2

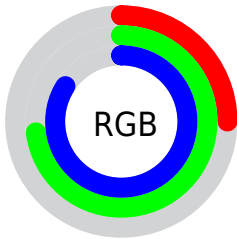
Format	Color
<b>RYB</b>	63, 131, 213
Decimal	4176853
CIELab	70.46, -25.44, -22.94
CIELCh	70, 34.256, 222.052
Yxy	41.4015, 0.2234, 0.2905
Android (android.graphics.Color)	4282366933 (0xFF3FBBD5)
YUV	152.8880, 29.6352, -78.8318
Hunter-Lab	64.3440, -24.2994, -18.7831

# Details

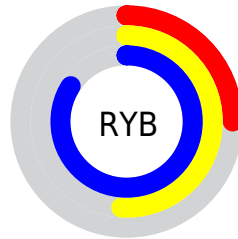
The XYZ color **31.8305, 41.4015, 69.2644** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light muted azure. A complement of this color would be **31.9115, 21.6516, 7.2014**, and the grayscale version is **30.1323, 31.7015, 34.5229**.

A 20% lighter version of the original color is **59.1539, 75.9883, 106.1572**, and **14.5591, 19.2437, 35.2948** is the 20% darker color. If you saturate the color by 10%, you get **29.9510, 39.2855, 68.9558**, and if you desaturate by 10%, it is **34.2587, 43.8319, 69.6063**.

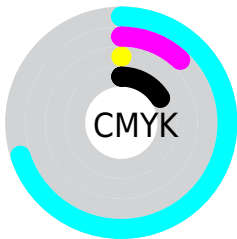
# Distribution



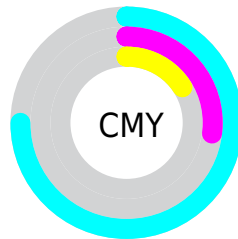
- Red (25%)
- Green (73%)
- Blue (84%)



- Red (25%)
- Yellow (51%)
- Blue (84%)



- Cyan (70%)
- Magenta (12%)
- Yellow (0%)
- Black (16%)



- Cyan (75%)
- Magenta (27%)
- Yellow (16%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.8305, 41.4015, 69.2644 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 31.8305, 41.4015, 69.2644 by changing the saturation by 10% instead.



31.8305, 41.4015,  
69.2644

31.8305, 41.4015,  
69.2644

302.1054,  
351.9959, 476.6821

21.3870, 28.6329,  
50.4540

61.9123, 77.2930,  
119.8304

13.5212, 18.8033,  
35.4005

82.2812, 101.1848,  
152.4230

7.8679, 11.5283,  
23.6856

106.6894,  
129.5530, 190.4468

4.0616, 6.4233,  
14.8905

135.5021,  
162.7822, 234.3203

1.7371, 3.1042,  
8.5968

169.0847,  
201.2567, 284.4621

0.4793, 1.1864,  
4.3859

207.8025,

0.0000, 0.0505,

245.3608, 341.2906

1.8394

252.0210,  
295.4791, 405.2244

■ 0.0000, 0.0000,  
0.4537

■ 0.0000, 0.0000,  
0.0000

■ 31.8305, 41.4015,  
69.2644

■ 31.8305, 41.4015,  
69.2644

■ 29.9510, 39.2855,  
68.9558

■ 34.2587, 43.8319,  
69.6063

■ 28.5516, 37.4459,  
68.6745

■ 37.2861, 46.6005,  
69.9811

■ 27.5515, 35.8865,  
68.4262

■ 40.9616, 49.7335,  
70.3922

■ 45.3281, 53.2533,  
70.8414

■ 50.4247, 57.1802,  
71.3308

■ 56.2873, 61.5330,  
71.8619

■ 62.9497, 66.3293,  
72.4366

■ 70.4434, 71.5855,  
73.0562

■ 78.7982, 77.3172,  
73.7221

# Harmonies

## Analogous

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



29.6637, 41.4015, 51.8847



31.8305, 41.4015, 69.2644



36.1007, 41.4015, 81.5804

# Triad

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



31.8305, 41.4015, 69.2644



50.6037, 41.4015, 55.3505



37.1283, 41.4015, 21.0046

# Complementary

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



31.8305, 41.4015, 69.2644



31.9115, 21.6516, 7.2014

# 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.



42.7906, 41.4015, 21.5058



31.8305, 41.4015, 69.2644



50.9461, 41.4015, 38.8965

# Square

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



31.8305, 41.4015, 69.2644



47.0761, 41.4015, 72.3183



47.9713, 41.4015, 27.3024



32.5207, 41.4015, 25.7160



# Rectangle

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



31.8305, 41.4015, 69.2644



39.7407, 41.4015, 83.8170



47.9713, 41.4015, 27.3024



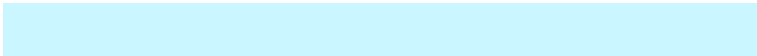
38.9636, 41.4015, 20.6074

# Sweetspot

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



31.8318, 41.4030, 69.2654



75.1286, 85.4400, 107.1396



27.6069, 49.3509, 17.3051



15.6044, 17.9248, 22.8873



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

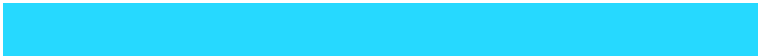


# Same Dimension

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



31.8318, 41.4030, 69.2654



43.7823, 57.4844, 103.3958



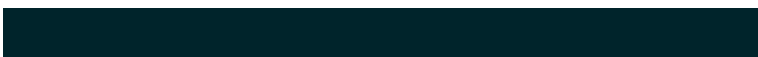
19.9669, 17.6732, 65.3104



12.6005, 13.7245, 15.9225



16.8961, 22.0539, 41.8195



1.0684, 1.4288, 2.5388



# Inverse Universe

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



38.1889, 21.2905, 49.1119



54.5215, 27.6944, 68.4110



41.4364, 40.7012, 10.3764



12.8563, 12.5940, 15.1836



21.5872, 10.5712, 26.1941



1.3269, 0.6476, 1.7110



# Previews

## White Background



This preview shows how the XYZ color 31.8305, 41.4015, 69.2644 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

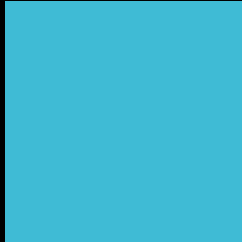
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 31.8305, 41.4015, 69.2644 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

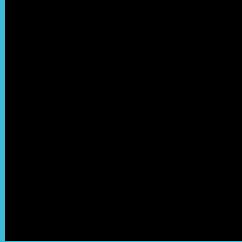
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 31.8305, 41.4015, 69.2644

## Background



This preview shows how black text looks on a background with the XYZ color 31.8305, 41.4015, 69.2644.



This preview shows how white text looks on a background with the XYZ color 31.8305, 41.4015,



# 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

31.8305, 41.4015, 69.2644

### Protanopia

40.4344, 40.9658, 61.0344

### Deuteranopia

41.8369, 40.9075, 71.3365



## Tritanopia

30.7840, 41.6247, 63.5386

# Trichromacy



**Original Color**

31.8305, 41.4015, 69.2644

**Protanomaly**

35.4469, 40.0476, 63.6193

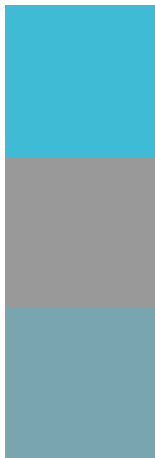
**Deuteranomaly**

36.4770, 40.1298, 70.7890

**Tritanomaly**

31.0493, 41.4012, 65.3863

# Monochromacy



**Original Color**

31.8305, 41.4015, 69.2644

**Achromatopsia**

30.2779, 31.8547, 34.6897

**Achromatomaly**

28.9387, 33.9985, 45.5946

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.8305, 41.4015, 69.2644 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(63, 187, 213)` looks like.

```
.text, #text, p{  
    color:rgb(63, 187, 213)  
}
```

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(63, 187, 213) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(63, 187, 213) }
```

## Border

The CSS property to change the border of an element to XYZ 31.8305, 41.4015, 69.2644 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(63, 187, 213) }
```



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

```
.border{ border-color:rgb(63, 187, 213) }
```

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

Here you see how a box with a 4 pixel `rgb(63, 187, 213)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(63, 187, 213); -webkit-box-  
shadow:4px 4px 4px 4px rgb(63, 187, 213);  
box-shadow:4px 4px 4px 4px rgb(63, 187,  
213) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.8305, 41.4015, 69.2644 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(63, 187, 213) }
```

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

```
.background{ background-color: rgb(63, 187,  
213) }
```

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