

# Converting Colors

XYZ(31.6713, 42.0682, 64.2083)

Have a look what the booklet for  
XYZ(31.6713, 42.0682, 64.2083)  
contains.

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# Color

**XYZ(31.6713, 42.0682,  
64.2083)**

# Conversions

## Conversions Part 1

Format	Color
Hex	45BDCD
RGB	69, 189, 205
RGB Percent	27%, 74%, 80%
CMY	0.7294, 0.2588, 0.1961
CMYK	0.66, 0.08, 0.00, 0.20
HSL	187°, 58%, 54%
HSV	187°, 66%, 80%
XYZ	31.6713, 42.0682, 64.2083
YIQ	154.9440, -76.6560, -20.4640

# Conversions

## Conversions Part 2

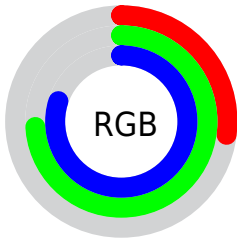
Format	Color
<b>RYB</b>	69, 133, 205
Decimal	4570573
CIELab	70.92, -28.01, -17.86
CIELCh	71, 33.215, 212.523
Yxy	42.0682, 0.2296, 0.3050
Android (android.graphics.Color)	4282760653 (0xFF45BDCD)
YUV	154.9440, 24.6776, -75.3729
Hunter-Lab	64.8600, -26.3430, -13.2923

# Details

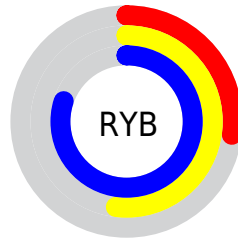
The XYZ color **31.6713, 42.0682, 64.2083** is a light color, and the websafe version is hex **66CCCC**. The color can be described as light muted azure. A complement of this color would be **29.5006, 19.9071, 7.9191**, and the grayscale version is **31.0511, 32.6682, 35.5757**.

A 20% lighter version of the original color is **60.6786, 78.1181, 106.4879**, and **14.2499, 19.5623, 32.3030** is the 20% darker color. If you saturate the color by 10%, you get **29.9463, 40.4161, 63.9811**, and if you desaturate by 10%, it is **33.9097, 43.9996, 64.4639**.

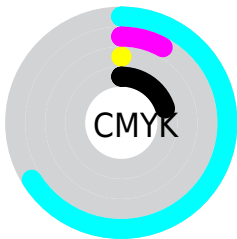
# Distribution



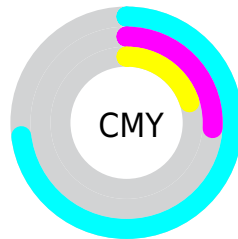
- Red (27%)
- Green (74%)
- Blue (80%)



- Red (27%)
- Yellow (52%)
- Blue (80%)



- Cyan (66%)
- Magenta (8%)
- Yellow (0%)
- Black (20%)



- Cyan (73%)
- Magenta (26%)
- Yellow (20%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.6713, 42.0682, 64.2083 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 31.6713, 42.0682, 64.2083 by changing the saturation by 10% instead.



■ 31.6713, 42.0682,  
64.2083

■ 31.6713, 42.0682,  
64.2083

301.3911,  
354.7656, 458.1696

■ 21.2649, 29.1547,  
46.3721

■ 61.6641, 78.3028,  
112.5132

■ 13.4313, 19.1979,  
32.1888

■ 81.9812, 102.3928,  
143.8191

■ 7.8053, 11.8133,  
21.2397

■ 106.3326,  
130.9769, 180.4519

■ 4.0213, 6.6167,  
13.1064

■ 135.0836,  
164.4398, 222.8302

■ 1.7142, 3.2236,  
7.3703

168.5996,  
203.1657, 271.3726

■ 0.4651, 1.2495,  
3.6128

207.2460,

■ 0.0000, 0.1016,

247.5390, 326.4976

1.4154

251.3880,  
297.9442, 388.6237

■ 0.0000, 0.0000,  
0.1537

■ 0.0000, 0.0000,  
0.0000

■ 31.6713, 42.0682,  
64.2083

■ 31.6713, 42.0682,  
64.2083

■ 29.9463, 40.4161,  
63.9811

■ 33.9097, 43.9996,  
64.4639

■ 28.6765, 39.0105,  
63.7767

■ 36.7042, 46.2296,  
64.7471

■ 27.7940, 37.8172,  
63.5929

■ 40.0973, 48.7812,  
65.0607

■ 27.5200, 37.4087,  
63.5285

■ 44.1265, 51.6737,  
65.4067

■ 48.8261, 54.9248,  
65.7865

■ 54.2278, 58.5510,  
66.2017

■ 60.3614, 62.5676,  
66.6537

■ 67.2549, 66.9893,  
67.1439

■ 74.9349, 71.8296,  
67.6734

# Harmonies

## Analogous

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



30.2735, 42.0682, 47.1588



31.6713, 42.0682, 64.2083



35.2758, 42.0682, 78.4876

# Triad

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



31.6713, 42.0682, 64.2083



50.1810, 42.0682, 61.3438



39.5183, 42.0682, 21.6180

# Complementary

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



31.6713, 42.0682, 64.2083



29.5006, 19.9071, 7.9191

# 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.



45.0948, 42.0682, 23.7492



31.6713, 42.0682, 64.2083



51.5776, 42.0682, 44.4776

# Square

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



31.6713, 42.0682, 64.2083



45.9789, 42.0682, 76.5837



49.6384, 42.0682, 31.3043



34.5353, 42.0682, 24.6249



# Rectangle

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



31.6713, 42.0682, 64.2083



38.6165, 42.0682, 83.1249



49.6384, 42.0682, 31.3043



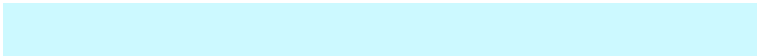
41.3845, 42.0682, 21.7574

# Sweetspot

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



31.6726, 42.0698, 64.2093



76.8276, 87.8089, 107.5073



25.9211, 45.5826, 16.0002



15.9777, 18.4716, 22.9732



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

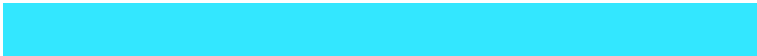


# Same Dimension

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



31.6726, 42.0698, 64.2093



47.9915, 65.0764, 104.6393



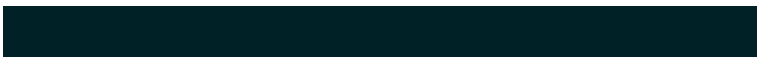
20.3287, 19.3818, 60.4280



11.4262, 12.4929, 14.3795



17.1776, 23.3793, 39.5636



0.9188, 1.2714, 2.0519



# Inverse Universe

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



36.4914, 20.9108, 50.2586



56.8478, 29.3972, 78.2803



37.6216, 36.1492, 10.6262



11.6285, 11.3801, 13.8443



20.8814, 10.1631, 28.1577

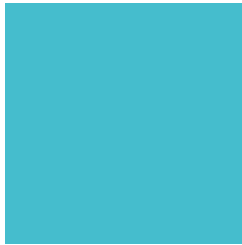


1.0937, 0.5309, 1.5394



# Previews

## White Background



This preview shows how the XYZ color 31.6713, 42.0682, 64.2083 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 31.6713, 42.0682, 64.2083 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

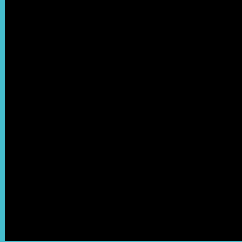
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 31.6713, 42.0682, 64.2083**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.6713, 42.0682, 64.2083.



This preview shows how white text looks on a background with the XYZ color 31.6713, 42.0682,



# 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

31.6713, 42.0682, 64.2083

### Protanopia

40.5507, 41.4111, 56.3080

### Deuteranopia

42.4912, 41.6373, 66.1189



## Tritanopia

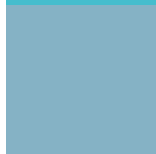
31.5509, 42.0200, 63.5745

# Trichromacy



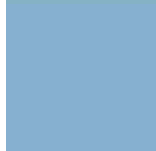
## Original Color

31.6713, 42.0682, 64.2083



## Protanomaly

35.6713, 40.8586, 58.8297



## Deuteranomaly

36.7420, 40.6731, 65.5887



## Tritanomaly

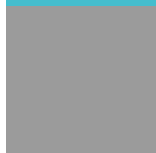
31.5509, 42.0200, 63.5745

# Monochromacy



## Original Color

31.6713, 42.0682, 64.2083



## Achromatopsia

31.1553, 32.7778, 35.6950



## Achromatomaly

29.6737, 34.9396, 44.7152

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.6713, 42.0682, 64.2083 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(69, 189, 205)` looks like.

```
.text, #text, p{  
    color:rgb(69, 189, 205)  
}
```

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(69, 189, 205) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(69, 189, 205) }
```

## Border

The CSS property to change the border of an element to XYZ 31.6713, 42.0682, 64.2083 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(69, 189, 205) }
```



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

```
.border{ border-color:rgb(69, 189, 205) }
```

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

Here you see how a box with a 4 pixel `rgb(69, 189, 205)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(69, 189, 205); -webkit-box-  
shadow:4px 4px 4px 4px rgb(69, 189, 205);  
box-shadow:4px 4px 4px 4px rgb(69, 189,  
205) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.6713, 42.0682, 64.2083 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(69, 189, 205) }
```

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

```
.background{ background-color: rgb(69, 189,  
205) }
```

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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