

# Converting Colors

XYZ(38.1397, 41.9142, 71.6568)

Have a look what the booklet for  
XYZ(38.1397, 41.9142, 71.6568)  
contains.

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# Color

**XYZ(38.1176, 41.8371,  
71.7120)**

# Conversions

## Conversions Part 1

Format	Color
Hex	85B2D9
RGB	133, 178, 217
RGB Percent	52%, 70%, 85%
CMY	0.4784, 0.3019, 0.1490
CMYK	0.39, 0.18, 0.00, 0.15
HSL	208°, 53%, 69%
HSV	208°, 39%, 85%
XYZ	38.1176, 41.8371, 71.7120
YIQ	168.9910, -39.3390, 2.5890

# Conversions

## Conversions Part 2

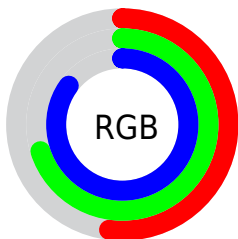
<b>Format</b>	<b>Color</b>
<b>RYB</b>	133, 162, 217
Decimal	8762073
CIELab	70.76, -5.24, -24.43
CIELCh	71, 24.981, 257.899
Yxy	41.8371, 0.2513, 0.2758
Android (android.graphics.Color)	4286952153 (0xFF85B2D9)
YUV	168.9910, 23.6684, -31.5641
Hunter-Lab	64.6816, -8.0007, -20.4572

# Details

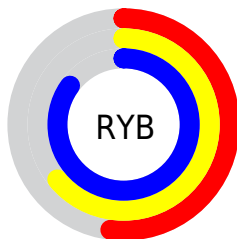
The XYZ color **38.1176, 41.8371, 71.7120** is a light color, and the websafe version is hex **99CCFF**. A complement of this color would be **47.6022, 45.9509, 28.5520**, and the grayscale version is **37.6093, 39.5679, 43.0895**.

A 20% lighter version of the original color is **68.4591, 76.8845, 105.8397**, and **17.0797, 18.9381, 36.9376** is the 20% darker color. If you saturate the color by 10%, you get **33.1077, 36.3879, 70.9250**, and if you desaturate by 10%, it is **43.9851, 47.9488, 72.5832**.

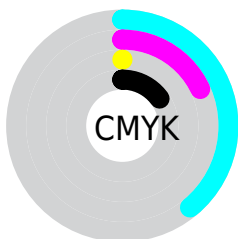
# Distribution



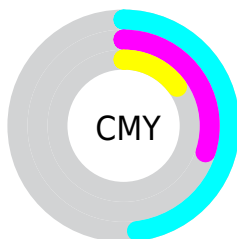
- Red (52%)
- Green (70%)
- Blue (85%)



- Red (52%)
- Yellow (64%)
- Blue (85%)



- Cyan (39%)
- Magenta (18%)
- Yellow (0%)
- Black (15%)



- Cyan (48%)
- Magenta (30%)
- Yellow (15%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.1176, 41.8371, 71.7120 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 38.1176, 41.8371, 71.7120 by changing the saturation by 10% instead.



■ 38.1176, 41.8371,  
71.7120

■ 38.1176, 41.8371,  
71.7120

329.3963,  
353.8072, 485.4891

■ 26.2516, 28.9738,  
52.4380

■ 71.5911, 77.9530,  
123.3509

■ 17.1456, 19.0610,  
36.9697

■ 93.9293, 101.9744,  
156.5529

■ 10.4343, 11.7143,  
24.8884

■ 120.4889,  
130.4839, 195.2347

■ 5.7523, 6.5495,  
15.7757

151.6354,  
163.8659, 239.8148

■ 2.7343, 3.1820,  
9.2129

187.7340,  
202.5049, 290.7118

■ 1.0149, 1.2275,  
4.7816

229.1501,

■ 0.0000, 0.0840,

246.7851, 348.3441

2.0632

276.2491,  
297.0911, 413.1304

■ 0.0000, 0.0000,  
0.5937

■ 0.0000, 0.0000,  
0.0000

■ 38.1176, 41.8371,  
71.7120

■ 38.1176, 41.8371,  
71.7120

■ 33.1077, 36.3879,  
70.9250

■ 43.9851, 47.9488,  
72.5832

■ 28.9044, 31.5675,  
70.2161

■ 50.7494, 54.7451,  
73.5385

■ 25.4569, 27.3458,  
69.5829

■ 58.4519, 62.2524,  
74.5816

■ 22.7065, 23.6876,  
69.0218

■ 67.1302, 70.4946,  
75.7151

■ 20.5842, 20.5521,  
68.5284

■ 76.8196, 79.4938,  
76.9414

■ 18.9857, 17.8801,  
68.0969

■ 84.4708, 87.6823,  
78.1187

■ 18.7992, 17.5591,  
68.0448

■ 87.4940, 93.7288,  
79.1264

■ 89.5245, 97.7898,  
79.8033

# Harmonies

## Analogous

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



34.6578, 41.8371, 64.6725



38.1176, 41.8371, 71.7120



42.2648, 41.8371, 70.9064

# Triad

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



38.1176, 41.8371, 71.7120



47.8407, 41.8371, 38.8928



34.1403, 41.8371, 31.9013

# Complementary

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



38.1176, 41.8371, 71.7120



47.6022, 45.9509, 28.5520

# 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.



37.3656, 41.8371, 27.1037



38.1176, 41.8371, 71.7120



45.3506, 41.8371, 30.6311

# Square

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



38.1176, 41.8371, 71.7120



48.0771, 41.8371, 50.5074



41.4590, 41.8371, 26.6832



32.4707, 41.8371, 40.9346



# Rectangle

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



38.1176, 41.8371, 71.7120



44.8638, 41.8371, 66.0407



41.4590, 41.8371, 26.6832



35.0678, 41.8371, 29.8130

# Sweetspot

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



38.1190, 41.8387, 71.7130



80.3087, 85.9196, 106.9592



41.8184, 57.5458, 47.3327



16.8726, 18.0823, 22.8509



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

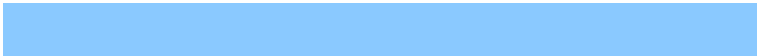


# Same Dimension

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



38.1190, 41.8387, 71.7130



49.2614, 54.1573, 102.4648



31.1725, 27.9458, 69.3975



12.9135, 13.7667, 16.6288



11.4868, 10.8430, 41.2259



0.8301, 0.8743, 2.6995



# Inverse Universe

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



45.0398, 34.7423, 46.4533



60.7742, 43.5465, 60.1778



56.5937, 63.9340, 31.5492



13.3462, 13.1676, 15.0843



19.2933, 9.7184, 11.1906



1.2933, 0.6470, 0.9534



# Previews

## White Background



This preview shows how the XYZ color 38.1176, 41.8371, 71.7120 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

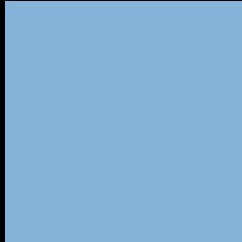
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 38.1176, 41.8371, 71.7120 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

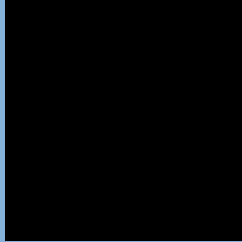
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 38.1176, 41.8371, 71.7120

## Background



This preview shows how black text looks on a background with the XYZ color 38.1176, 41.8371, 71.7120.



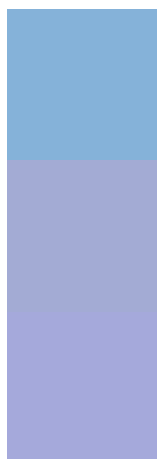
This preview shows how white text looks on a background with the XYZ color 38.1176, 41.8371,



# 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

38.1176, 41.8371, 71.7120

### Protanopia

41.5508, 41.6658, 68.1397

### Deuteranopia

42.4912, 41.4897, 72.7866



## Tritanopia

35.5938, 42.0306, 58.4613

# Trichromacy



## Original Color

38.1176, 41.8371, 71.7120

## Protanomaly

40.2225, 41.8025, 69.5671

## Deuteranomaly

40.5443, 41.3393, 72.1720

## Tritanomaly

36.6289, 42.1532, 63.3326

# Monochromacy



## Original Color

38.1176, 41.8371, 71.7120

## Achromatopsia

37.7116, 39.6755, 43.2066

## Achromatomaly

37.3258, 40.1181, 52.2307

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.1176, 41.8371, 71.7120 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(133, 178, 217)` looks like.

```
.text, #text, p{  
    color:rgb(133, 178, 217)  
}
```

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(133, 178, 217) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(133, 178, 217) }
```

## Border

The CSS property to change the border of an element to XYZ 38.1176, 41.8371, 71.7120 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(133, 178, 217) }
```



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

```
.border{ border-color:rgb(133, 178, 217) }
```

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

Here you see how a box with a 4 pixel rgb(133, 178, 217) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(133, 178, 217); -webkit-box-  
shadow:4px 4px 4px 4px rgb(133, 178, 217);  
box-shadow:4px 4px 4px 4px rgb(133, 178,  
217) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.1176, 41.8371, 71.7120 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(133, 178, 217) }
```

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

```
.background{ background-color: rgb(133,  
178, 217) }
```

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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