

# Converting Colors

XYZ(41.7598, 46.5054,  
101.3832)

Have a look what the booklet for  
XYZ(41.7598, 46.5054, 101.3832)  
contains.

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# Color

**XYZ(41.7271, 46.4400,  
101.3723)**

# Conversions

## Conversions Part 1

Format	Color
Hex	66BDFF
RGB	102, 189, 255
RGB Percent	40%, 74%, 100%
CMY	0.6000, 0.2588, 0.0000
CMYK	0.60, 0.26, 0.00, 0.00
HSL	206°, 100%, 70%
HSV	206°, 60%, 100%
XYZ	41.7271, 46.4400, 101.3723
YIQ	170.5110, -73.0380, 2.0820

# Conversions

## Conversions Part 2

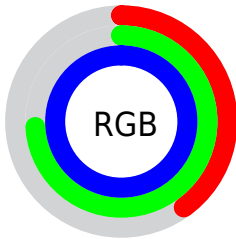
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	102, 157, 255
Decimal	6733311
CIE Lab	73.83, -7.19, -40.41
CIE LCh	74, 41.046, 259.915
Yxy	46.4400, 0.2202, 0.2450
Android (android.graphics.Color)	4284923391 (0xFF66BDFF)
YUV	170.5110, 41.6531, -60.0841
Hunter-Lab	68.1469, -9.9596, -40.4943

# Details

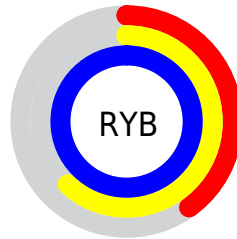
The XYZ color **41.7271, 46.4400, 101.3723** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **57.6423, 50.2267, 19.2291**, and the grayscale version is **38.2897, 40.2838, 43.8690**.

A 20% lighter version of the original color is **66.0122, 80.4173, 106.6506**, and **19.3065, 21.8450, 56.6250** is the 20% darker color. If you saturate the color by 10%, you get **36.9919, 40.6192, 100.4983**, and if you desaturate by 10%, it is **47.5332, 53.0810, 102.3481**.

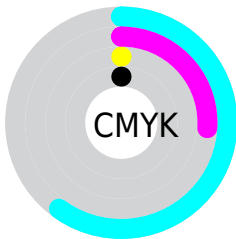
# Distribution



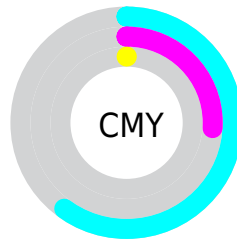
- Red (40%)
- Green (74%)
- Blue (100%)



- Red (40%)
- Yellow (62%)
- Blue (100%)



- Cyan (60%)
- Magenta (26%)
- Yellow (0%)
- Black (0%)



- Cyan (60%)
- Magenta (26%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 41.7271, 46.4400, 101.3723 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 41.7271, 46.4400, 101.3723 by changing the saturation by 10% instead.



■ 41.7271, 46.4400,  
101.3723

■ 41.7271, 46.4400,  
101.3723

344.3613,  
372.5748, 585.8677

■ 29.0778, 32.5932,  
76.8238

■ 77.0542, 84.8771,  
165.1101

■ 19.2843, 21.8150,  
56.5976

■ 100.4627,  
110.2362, 205.1364

■ 11.9811, 13.7210,  
40.2751

■ 128.1884,  
140.2015, 251.1592

■ 6.8029, 7.9269,  
27.4376

160.5966,  
175.1574, 303.5969

■ 3.3844, 4.0482,  
17.6668

198.0526,  
215.4882, 362.8680

■ 1.3601, 1.7006,  
10.5441

240.9218,

■ 0.2276, 0.4240,

261.5785, 429.3912

5.6509

289.5696,  
313.8126, 503.5849

■ 0.0000, 0.0000,  
2.5687

■ 0.0000, 0.0000,  
0.8762

■ 41.7271, 46.4400,  
101.3723

■ 41.7271, 46.4400,  
101.3723

■ 36.9919, 40.6192,  
100.4983

■ 47.5332, 53.0810,  
102.3481

■ 33.2348, 35.5623,  
99.7203

■ 54.4834, 60.5831,  
103.4299

■ 30.3524, 31.2109,  
99.0323

■ 62.6490, 68.9894,  
104.6221

■ 28.1758, 27.4715,  
98.4252

■ 72.0939, 78.3381,  
105.9288

■ 28.1752, 27.4704,  
98.4251

■ 82.8771, 88.6651,  
107.3537

95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

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



35.7038, 46.4400, 87.9819



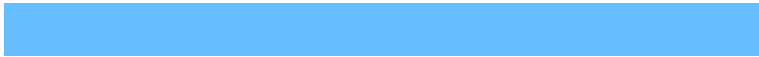
41.7271, 46.4400, 101.3723



49.0961, 46.4400, 98.5638

# Triad

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



41.7271, 46.4400, 101.3723



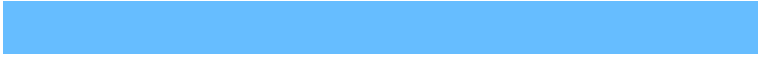
58.6970, 46.4400, 38.0703



34.2474, 46.4400, 28.8445

# Complementary

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



41.7271, 46.4400, 101.3723



57.6423, 50.2267, 19.2291

# 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.



39.5289, 46.4400, 21.4031



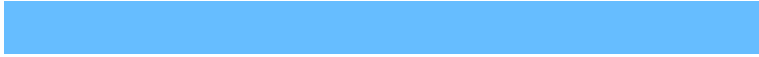
41.7271, 46.4400, 101.3723



53.8099, 46.4400, 25.6220

# Square

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



41.7271, 46.4400, 101.3723



59.4530, 46.4400, 57.9367



46.6438, 46.4400, 20.4136

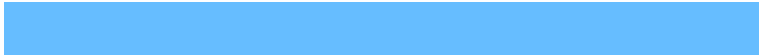


31.7115, 46.4400, 43.8472



# Rectangle

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



41.7271, 46.4400, 101.3723



53.7735, 46.4400, 88.0927



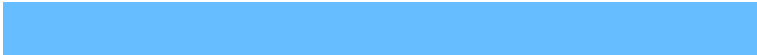
46.6438, 46.4400, 20.4136



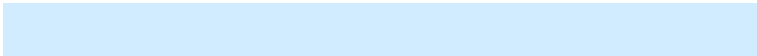
35.7314, 46.4400, 25.5734

# Sweetspot

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



41.7286, 46.4416, 101.3725



74.1384, 80.3210, 106.2037



48.1008, 77.0894, 48.3031



15.2348, 16.5763, 22.6465



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.



41.7286, 46.4416, 101.3725



36.1639, 39.5467, 100.3350



29.6335, 22.2515, 97.3408



17.8604, 19.0923, 22.9938



14.8734, 14.6564, 51.4796



1.5568, 1.6442, 5.0486



# Inverse Universe

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



55.1778, 34.4386, 51.8847



51.3354, 28.9442, 43.8512



75.4655, 85.8731, 25.1702



18.4422, 18.1602, 20.9456



24.2956, 12.2075, 15.4730

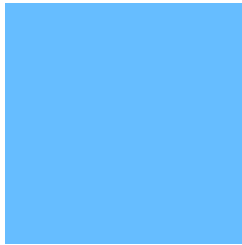


2.4204, 1.2105, 1.7952



# Previews

## White Background



This preview shows how the XYZ color 41.7271, 46.4400, 101.3723 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

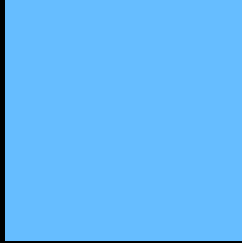
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 41.7271, 46.4400, 101.3723 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

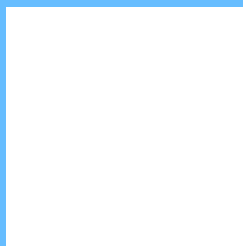
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 41.7271, 46.4400, 101.3723**

## **Background**



This preview shows how black text looks on a background with the XYZ color 41.7271, 46.4400, 101.3723.



This preview shows how white text looks on a background with the XYZ color 41.7271, 46.4400,



# 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

41.7271, 46.4400, 101.3723

### Protanopia

47.0522, 45.9682, 93.5816

### Deuteranopia

47.3070, 46.2325, 101.0382



## Tritanopia

35.5438, 46.5756, 70.0674

# Trichromacy



## Original Color

41.7271, 46.4400, 101.3723

## Protanomaly

44.4743, 45.7844, 96.1158

## Deuteranomaly

44.8150, 46.1553, 101.1546

## Tritanomaly

37.5118, 46.3587, 80.3698

# Monochromacy



## Original Color

41.7271, 46.4400, 101.3723

## Achromatopsia

38.7082, 40.7240, 44.3485

## Achromatomaly

38.4351, 42.2160, 61.9999

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 41.7271, 46.4400, 101.3723 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(102, 189, 255)` looks like.

```
.text, #text, p{  
    color:rgb(102, 189, 255)  
}
```

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(102, 189, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 189, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 41.7271, 46.4400, 101.3723 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(102, 189, 255) }
```



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

```
.border{ border-color:rgb(102, 189, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(102, 189, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 189, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 189, 255);  
box-shadow:4px 4px 4px 4px rgb(102, 189,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 41.7271, 46.4400, 101.3723 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 189, 255) }
```

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

```
.background{ background-color: rgb(102,  
189, 255) }
```

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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