

# Converting Colors

XYZ(46.1886, 61.4591,  
104.0361)

Have a look what the booklet for  
XYZ(46.1886, 61.4591, 104.0361)  
contains.

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# Color

**XYZ(46.0709, 61.2351,  
103.9991)**

# Conversions

## Conversions Part 1

Format	Color
Hex	33E0FF
RGB	51, 224, 255
RGB Percent	20%, 88%, 100%
CMY	0.7999, 0.1216, 0.0000
CMYK	0.80, 0.12, 0.00, 0.00
HSL	189°, 100%, 60%
HSV	189°, 80%, 100%
XYZ	46.0709, 61.2351, 103.9991
YIQ	175.8070, -113.0590, -27.0350

# Conversions

## Conversions Part 2

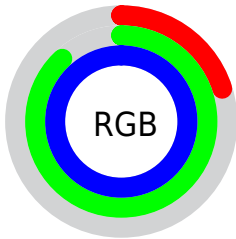
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	51, 145, 255
Decimal	3399935
CIE Lab	82.50, -31.83, -27.13
CIE LCh	83, 41.818, 220.444
Yxy	61.2351, 0.2180, 0.2898
Android (android.graphics.Color)	4281590015 (0xFF33E0FF)
YUV	175.8070, 39.0421, -109.4557
Hunter-Lab	78.2529, -31.8517, -24.0202

# Details

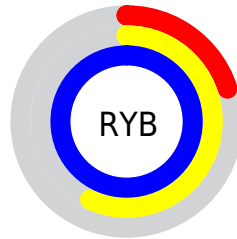
The XYZ color **46.0709, 61.2351, 103.9991** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light washed cyan. A complement of this color would be **44.8565, 27.5362, 6.0850**, and the grayscale version is **41.0153, 43.1513, 46.9917**.

A 20% lighter version of the original color is **63.1701, 83.5653, 107.4080**, and **24.1957, 32.0825, 58.3434** is the 20% darker color. If you saturate the color by 10%, you get **44.0906, 58.6869, 103.6116**, and if you desaturate by 10%, it is **48.7817, 64.1975, 104.4280**.

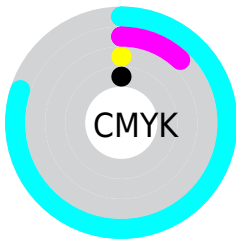
# Distribution



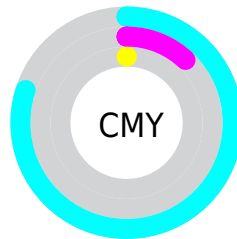
- Red (20%)
- Green (88%)
- Blue (100%)



- Red (20%)
- Yellow (57%)
- Blue (100%)



- Cyan (80%)
- Magenta (12%)
- Yellow (0%)
- Black (0%)



- Cyan (80%)
- Magenta (12%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.0709, 61.2351, 103.9991 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 46.0709, 61.2351, 103.9991 by changing the saturation by 10% instead.



46.0709, 61.2351,  
103.9991

46.0709, 61.2351,  
103.9991

361.8048,  
429.1355, 594.2953

32.5066, 44.4149,  
79.0091

83.5523, 106.6193,  
168.7417

21.9062, 30.9968,  
58.3819

108.2002,  
135.9521, 209.3314

13.9042, 20.5964,  
41.6990

137.2733,  
170.2245, 255.9581

8.1353, 12.8293,  
28.5419

171.1369,  
209.8210, 309.0404

4.2342, 7.3111,  
18.4920

210.1566,  
255.1260, 368.9966

1.8355, 3.6574,  
11.1307

254.6975,

0.5389, 1.4838,

306.5238, 436.2455

6.0395

305.1251,  
364.3988, 511.2056

■ 0.0000, 0.2773,  
2.8000

■ 0.0000, 0.0000,  
0.9934

■ 46.0709, 61.2351,  
103.9991

■ 46.0709, 61.2351,  
103.9991

■ 44.0906, 58.6869,  
103.6116

■ 48.7817, 64.1975,  
104.4280

■ 42.6710, 56.4616,  
103.2569

■ 52.3188, 67.6201,  
104.9022

■ 42.6700, 56.4600,  
103.2567

■ 56.7684, 71.5489,  
105.4260

■ 62.2044, 76.0221,  
106.0029

■ 68.6933, 81.0741,  
106.6361

■ 76.2952, 86.7364,  
107.3284

■ 85.0662, 93.0378,  
108.0824

■ 95.0500, 100.0000,  
108.9000

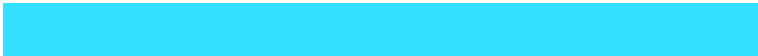
# Harmonies

## Analogous

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



42.8751, 61.2351, 76.0070



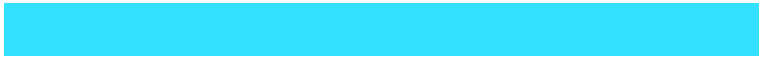
46.0709, 61.2351, 103.9991



52.6334, 61.2351, 124.6859

# Triad

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



46.0709, 61.2351, 103.9991



75.9577, 61.2351, 84.5565



55.1401, 61.2351, 29.0211

# Complementary

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



46.0709, 61.2351, 103.9991



44.8565, 27.5362, 6.0850

# 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.



64.1503, 61.2351, 30.1998



46.0709, 61.2351, 103.9991



76.8053, 61.2351, 58.1392

# Square

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



46.0709, 61.2351, 103.9991



70.0859, 61.2351, 111.6193



72.2953, 61.2351, 39.5566

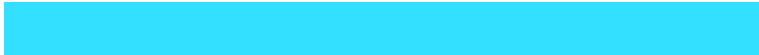


47.7439, 61.2351, 35.7774

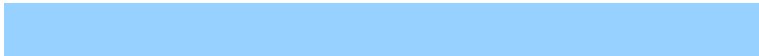


# Rectangle

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



46.0709, 61.2351, 103.9991



58.3355, 61.2351, 129.0459



72.2953, 61.2351, 39.5566



58.0690, 61.2351, 28.5558

# Sweetspot

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



46.0727, 61.2372, 103.9994



73.1114, 84.3921, 107.0437



38.6346, 72.8277, 19.9272



15.0761, 17.6354, 22.8593



0.0000, 0.0000, 0.0000

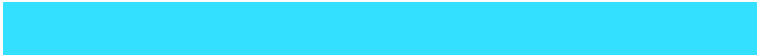


20.3446, 21.4041, 23.3091

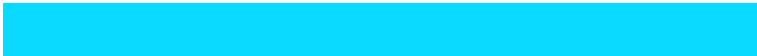


# Same Dimension

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



46.0727, 61.2372, 103.9994



43.1973, 57.3250, 103.3958



26.4265, 21.9449, 97.4507



18.3059, 19.9834, 23.1423



22.3849, 29.6794, 53.9835



2.2404, 3.0115, 5.2765



# Inverse Universe

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



55.8796, 29.0113, 73.1777



53.9795, 26.5329, 68.4689



58.8969, 55.6170, 10.7651



18.6670, 18.2501, 22.1297



28.0871, 13.7241, 35.4386

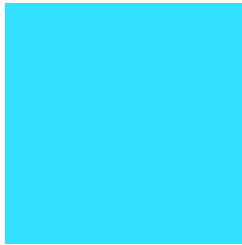


2.7655, 1.3486, 3.6123



# Previews

## White Background



This preview shows how the XYZ color 46.0709, 61.2351, 103.9991 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

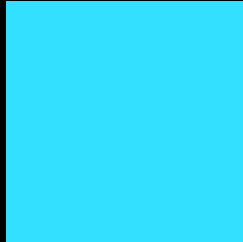
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 46.0709, 61.2351, 103.9991 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

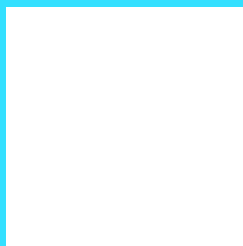
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 46.0709, 61.2351, 103.9991

## Background



This preview shows how black text looks on a background with the XYZ color 46.0709, 61.2351, 103.9991.



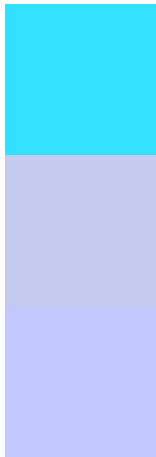
This preview shows how white text looks on a background with the XYZ color 46.0709, 61.2351,



# 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

46.0709, 61.2351, 103.9991

### Protanopia

59.6137, 60.2681, 90.9290

### Deuteranopia

61.2100, 60.1307, 102.9880



## Tritanopia

44.3622, 61.3557, 95.0927

# Trichromacy



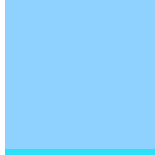
## Original Color

46.0709, 61.2351, 103.9991



## Protanomaly

50.8557, 58.5254, 95.0024



## Deuteranomaly

52.1782, 58.6606, 103.1803



## Tritanomaly

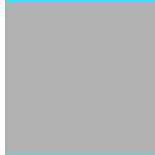
44.8648, 61.1413, 98.2438

# Monochromacy



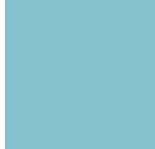
## Original Color

46.0709, 61.2351, 103.9991



## Achromatopsia

41.2663, 43.4154, 47.2793



## Achromatomaly

39.4495, 47.3730, 64.8223

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.0709, 61.2351, 103.9991 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(51, 224, 255)` looks like.

```
.text, #text, p{  
    color:rgb(51, 224, 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(51, 224, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 224, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 46.0709, 61.2351, 103.9991 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(51, 224, 255) }
```



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

```
.border{ border-color:rgb(51, 224, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 224, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 224, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 224, 255);  
box-shadow:4px 4px 4px 4px rgb(51, 224,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.0709, 61.2351, 103.9991 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 224, 255) }
```

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

```
.background{ background-color: rgb(51, 224,  
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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