

# Converting Colors

XYZ(40.8959, 41.4424,  
100.4515)

Have a look what the booklet for  
XYZ(40.8959, 41.4424, 100.4515)  
contains.

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# **Color**

**XYZ(40.9318, 41.4852,  
100.4578)**

# Conversions

## Conversions Part 1

Format	Color
Hex	78AEFF
RGB	120, 174, 255
RGB Percent	47%, 68%, 100%
CMY	0.5294, 0.3176, 0.0000
CMYK	0.53, 0.32, 0.00, 0.00
HSL	216°, 100%, 74%
HSV	216°, 53%, 100%
XYZ	40.9318, 41.4852, 100.4578
YIQ	167.0880, -58.1850, 13.7430

# Conversions

## Conversions Part 2

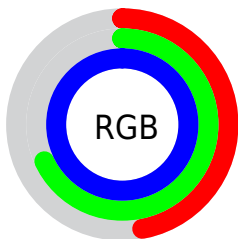
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	120, 159, 255
Decimal	7909119
CIE Lab	70.51, 4.67, -45.54
CIE LCh	71, 45.779, 275.860
Yxy	41.4852, 0.2238, 0.2269
Android (android.graphics.Color)	4286099199 (0xFF78AEFF)
YUV	167.0880, 43.3406, -41.2962
Hunter-Lab	64.4090, 0.7206, -47.3875

# Details

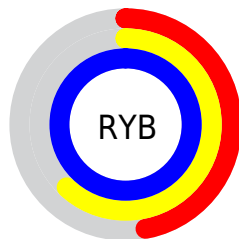
The XYZ color **40.9318, 41.4852, 100.4578** is a light color, and the websafe version is hex **6699FF**. A complement of this color would be **65.5182, 64.3914, 26.7470**, and the grayscale version is **36.5907, 38.4963, 41.9225**.

A 20% lighter version of the original color is **64.6597, 72.8423, 105.2598**, and **18.8399, 18.8661, 56.0746** is the 20% darker color. If you saturate the color by 10%, you get **35.0652, 34.3205, 99.3841**, and if you desaturate by 10%, it is **48.0793, 49.8115, 101.6883**.

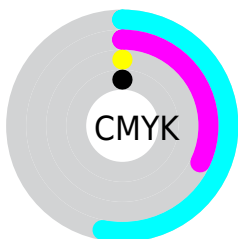
# Distribution



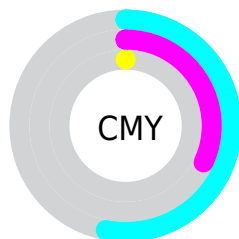
- Red (47%)
- Green (68%)
- Blue (100%)



- Red (47%)
- Yellow (62%)
- Blue (100%)



- Cyan (53%)
- Magenta (32%)
- Yellow (0%)
- Black (0%)



- Cyan (53%)
- Magenta (32%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.9318, 41.4852, 100.4578 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 40.9318, 41.4852, 100.4578 by changing the saturation by 10% instead.



■ 40.9318, 41.4852,  
100.4578

■ 40.9318, 41.4852,  
100.4578

341.1030,  
352.3444, 582.9186

■ 28.4532, 28.6984,  
76.0639

■ 75.8557, 77.4199,  
163.8435

■ 18.8098, 18.8528,  
55.9779

■ 99.0318, 101.3366,  
203.6724

■ 11.6361, 11.5640,  
39.7814

■ 126.5044,  
129.7320, 249.4834

■ 6.5668, 6.4475,  
27.0556

158.6389,  
162.9906, 301.6951

■ 3.2366, 3.1191,  
17.3822

195.8006,  
201.4968, 360.7258

■ 1.2801, 1.1942,  
10.3425

238.3550,

■ 0.1682, 0.0570,

245.6349, 426.9943

5.5181

286.6673,  
295.7893, 500.9191

■ 0.0000, 0.0000,  
2.4903

■ 0.0000, 0.0000,  
0.8350

■ 40.9318, 41.4852,  
100.4578

■ 40.9318, 41.4852,  
100.4578

■ 35.0652, 34.3205,  
99.3841

■ 48.0793, 49.8115,  
101.6883

■ 30.3876, 28.2513,  
98.4592

■ 56.5825, 59.3516,  
103.0815

■ 26.8001, 23.2095,  
97.6751

■ 66.5148, 70.1595,  
104.6442

■ 24.1826, 19.1147,  
97.0227

■ 77.9429, 82.2839,  
106.3821

■ 22.8011, 16.7222,  
96.6337

■ 90.9291, 95.7712,  
108.3009

95.0500, 100.0000,  
108.9000

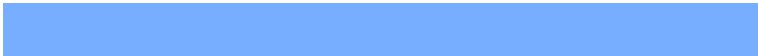
# Harmonies

## Analogous

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



33.7848, 41.4852, 94.7435



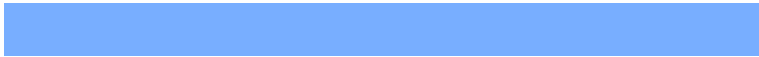
40.9318, 41.4852, 100.4578



48.5638, 41.4852, 87.9545

# Triad

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



40.9318, 41.4852, 100.4578



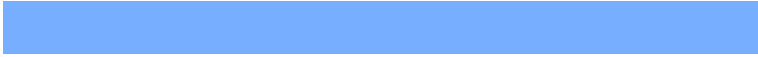
52.4092, 41.4852, 24.9249



27.6078, 41.4852, 30.2075

# Complementary

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



40.9318, 41.4852, 100.4578



65.5182, 64.3914, 26.7470

# 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.



31.5206, 41.4852, 19.1533



40.9318, 41.4852, 100.4578



45.6724, 41.4852, 16.8552

# Square

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



40.9318, 41.4852, 100.4578



55.7121, 41.4852, 41.0557



37.9662, 41.4852, 15.1442



26.6770, 41.4852, 49.5511



# Rectangle

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



40.9318, 41.4852, 100.4578



52.7121, 41.4852, 72.7613



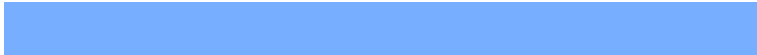
37.9662, 41.4852, 15.1442



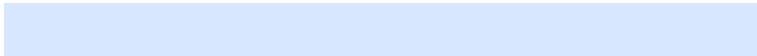
28.5912, 41.4852, 25.6194

# Sweetspot

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



40.9332, 41.4866, 100.4580



74.2816, 78.4295, 105.8311



54.0496, 79.7307, 67.8008



15.3898, 16.2476, 22.5749



0.0000, 0.0000, 0.0000

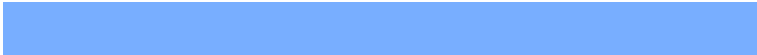


20.3446, 21.4041, 23.3091

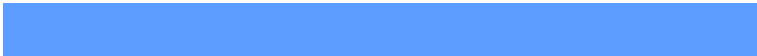


# Same Dimension

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



40.9332, 41.4866, 100.4580



34.5139, 33.6255, 99.2790



34.5202, 25.6823, 97.7455



17.5993, 18.5701, 22.9068



12.0504, 9.0104, 50.5386



1.2767, 1.0841, 4.9552



# Inverse Universe

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



55.5975, 37.7506, 44.4020



51.1423, 31.3167, 35.2826



75.5973, 91.6652, 31.4801



18.3104, 18.1075, 20.2516



22.8707, 11.6376, 7.9695



2.2790, 1.1540, 1.0508



# Previews

## White Background



This preview shows how the XYZ color 40.9318, 41.4852, 100.4578 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 40.9318, 41.4852, 100.4578 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

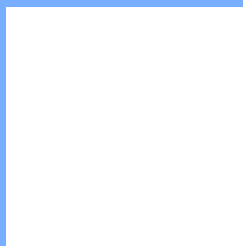
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 40.9318, 41.4852, 100.4578**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.9318, 41.4852, 100.4578.



This preview shows how white text looks on a background with the XYZ color 40.9318, 41.4852,

100.4578.

# 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

40.9318, 41.4852, 100.4578

### Protanopia

43.2776, 41.3607, 96.9692

### Deuteranopia

42.6046, 41.4967, 100.3719



## Tritanopia

33.1411, 41.6348, 60.9332

# Trichromacy



## Original Color

40.9318, 41.4852, 100.4578

## Protanomaly

42.2869, 41.3883, 97.8554

## Deuteranomaly

42.0084, 41.4709, 100.3983

## Tritanomaly

35.6265, 41.4032, 73.8240

# Monochromacy



## Original Color

40.9318, 41.4852, 100.4578

## Achromatopsia

36.7301, 38.6429, 42.0822

## Achromatomaly

37.2612, 39.3570, 59.6656

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.9318, 41.4852, 100.4578 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(120, 174, 255)` looks like.

```
.text, #text, p{  
    color:rgb(120, 174, 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(120, 174, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 174, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 40.9318, 41.4852, 100.4578 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(120, 174, 255) }
```



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

```
.border{ border-color:rgb(120, 174, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(120, 174, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(120, 174, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(120, 174, 255);  
box-shadow:4px 4px 4px 4px rgb(120, 174,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.9318, 41.4852, 100.4578 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(120, 174, 255) }
```

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

```
.background{ background-color: rgb(120,  
174, 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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