

# Converting Colors

XYZ(46.0433, 44.4839,  
100.7672)

Have a look what the booklet for  
XYZ(46.0433, 44.4839, 100.7672)  
contains.

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# **Color**

**XYZ(45.9576, 44.3640,  
100.7486)**

# Conversions

## Conversions Part 1

Format	Color
Hex	96AFFF
RGB	150, 175, 255
RGB Percent	59%, 69%, 100%
CMY	0.4117, 0.3137, 0.0000
CMYK	0.41, 0.31, 0.00, 0.00
HSL	226°, 100%, 79%
HSV	226°, 41%, 100%
XYZ	45.9576, 44.3640, 100.7486
YIQ	176.6450, -40.5800, 19.5800

# Conversions

## Conversions Part 2

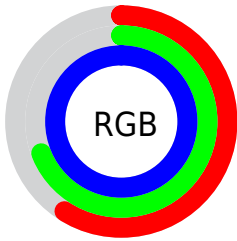
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">150, 170, 255</a>
Decimal	<a href="#">9875455</a>
CIELab	<a href="#">72.47, 11.10, -42.35</a>
CIELCh	<a href="#">72, 43.784, 284.688</a>
Yxy	<a href="#">44.3640, 0.2405, 0.2322</a>
Android (android.graphics.Color)	<a href="#">4288065535 (0xFF96AFFF)</a>
YUV	<a href="#">176.6450, 38.6290, -23.3677</a>
Hunter-Lab	<a href="#">66.6063, 6.6020, -43.0576</a>

# Details

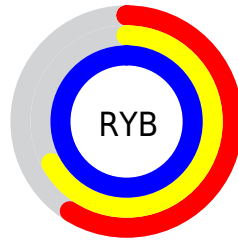
The XYZ color **45.9576, 44.3640, 100.7486** is a light color, and the websafe version is hex **6699FF**. A complement of this color would be **75.0425, 80.0564, 40.3532**, and the grayscale version is **41.4244, 43.5817, 47.4605**.

A 20% lighter version of the original color is **72.0789, 77.0790, 105.6865**, and **21.8921, 20.6228, 56.2528** is the 20% darker color. If you saturate the color by 10%, you get **38.2524, 35.1771, 99.3815**, and if you desaturate by 10%, it is **55.2306, 55.1684, 102.3453**.

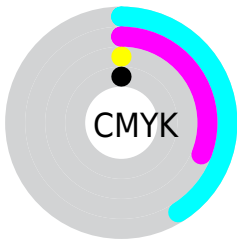
# Distribution



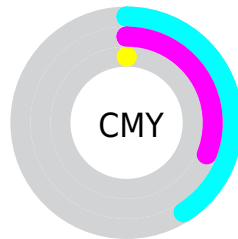
- Red (59%)
- Green (69%)
- Blue (100%)



- Red (59%)
- Yellow (67%)
- Blue (100%)



- Cyan (41%)
- Magenta (31%)
- Yellow (0%)
- Black (0%)



- Cyan (41%)
- Magenta (31%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.9576, 44.3640, 100.7486 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 45.9576, 44.3640, 100.7486 by changing the saturation by 10% instead.



■ 45.9576, 44.3640,  
100.7486

■ 45.9576, 44.3640,  
100.7486

361.3570,  
364.1916, 583.8573

■ 32.4168, 30.9568,  
76.3055

■ 83.3838, 81.7652,  
164.2464

■ 21.8372, 20.5659,  
56.1749

■ 107.9999,  
106.5280, 204.1382

■ 13.8532, 12.8071,  
39.9382

137.0386,  
135.8447, 250.0166

■ 8.0997, 7.2958,  
27.1770

170.8651,  
170.0998, 302.3002

■ 4.2111, 3.6478,  
17.4726

209.8449,  
209.6776, 361.4075

■ 1.8223, 1.4786,  
10.4065

254.3432,

■ 0.5310, 0.2736,

254.9626, 427.7571

5.5602

304.7254,  
306.3391, 501.7675

■ 0.0000, 0.0000,  
2.5151

■ 0.0000, 0.0000,  
0.8481

■ 45.9576, 44.3640,  
100.7486

■ 45.9576, 44.3640,  
100.7486

■ 38.2524, 35.1771,  
99.3815

■ 55.2306, 55.1684,  
102.3453

■ 32.0208, 27.5223,  
98.2324

■ 66.1497, 67.6605,  
104.1811

■ 27.1644, 21.3130,  
97.2899

■ 78.7931, 81.9119,  
106.2655

■ 23.5705, 16.4513,  
96.5409

■ 93.2326, 97.9885,  
108.6075

■ 21.1066, 12.8253,  
95.9708

95.0500, 100.0000,  
108.9000

■ 19.7035, 10.5270,  
95.6012

# Harmonies

## Analogous

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



38.4462, 44.3640, 100.5572



45.9576, 44.3640, 100.7486



53.2277, 44.3640, 84.3235

# Triad

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



45.9576, 44.3640, 100.7486



53.3585, 44.3640, 24.5599



29.6520, 44.3640, 38.1318

# Complementary

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



45.9576, 44.3640, 100.7486



75.0425, 80.0564, 40.3532

# 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.



32.7550, 44.3640, 24.3563



45.9576, 44.3640, 100.7486



46.1197, 44.3640, 18.2671

# Square

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



45.9576, 44.3640, 100.7486



57.8346, 44.3640, 38.5069



38.5901, 44.3640, 18.2059



29.6196, 44.3640, 59.6381



# Rectangle

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



45.9576, 44.3640, 100.7486



56.7065, 44.3640, 68.3613



38.5901, 44.3640, 18.2059



30.3524, 44.3640, 32.6136

# Sweetspot

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



45.9590, 44.3656, 100.7489



77.6828, 80.6677, 106.0838



62.4466, 83.6477, 86.8010



16.2564, 16.8500, 22.6455



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.



45.9590, 44.3656, 100.7489



39.7997, 37.0421, 99.6599



46.9188, 38.2937, 99.5263



17.3541, 18.0797, 22.8250



10.3905, 5.6905, 49.9853



1.0917, 0.7140, 4.8936



# Inverse Universe

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



59.8852, 46.1693, 46.3143



55.5570, 39.7696, 37.9141



73.4991, 90.3392, 42.4193



18.1866, 18.0580, 19.5998



22.0328, 11.3024, 3.5574



2.1856, 1.1166, 0.5590



# Previews

## White Background



This preview shows how the XYZ color 45.9576, 44.3640, 100.7486 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

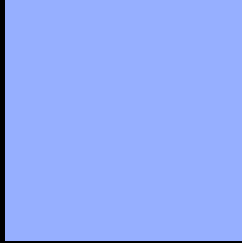
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.9576, 44.3640, 100.7486 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 45.9576, 44.3640, 100.7486

## Background



This preview shows how black text looks on a background with the XYZ color 45.9576, 44.3640, 100.7486.



This preview shows how white text looks on a background with the XYZ color 45.9576, 44.3640,



# 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

45.9576, 44.3640, 100.7486

### Protanopia

46.3289, 44.5553, 100.7660

### Deuteranopia

45.6080, 44.4737, 100.7882



## **Tritanopia**

38.2549, 44.5691, 61.8448

# Trichromacy



## Original Color

45.9576, 44.3640, 100.7486

## Protanomaly

46.1425, 44.4593, 100.7573

## Deuteranomaly

45.7881, 44.5666, 100.7967

## Tritanomaly

40.7636, 44.3391, 74.8164

# Monochromacy



## Original Color

45.9576, 44.3640, 100.7486

## Achromatopsia

41.7894, 43.9657, 47.8787

## Achromatomaly

42.4811, 43.6739, 63.9485

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.9576, 44.3640, 100.7486 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(150, 175, 255)` looks like.

```
.text, #text, p{  
    color:rgb(150, 175, 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(150, 175, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(150, 175, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 45.9576, 44.3640, 100.7486 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(150, 175, 255) }
```



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

```
.border{ border-color:rgb(150, 175, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(150, 175, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(150, 175, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(150, 175, 255);  
box-shadow:4px 4px 4px 4px rgb(150, 175,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.9576, 44.3640, 100.7486 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(150, 175, 255) }
```

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

```
.background{ background-color: rgb(150,  
175, 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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