

# Converting Colors

XYZ(40.6455, 45.2851, 99.5272)

Have a look what the booklet for  
XYZ(40.6455, 45.2851, 99.5272)  
contains.

<b>XYZ(40.6455, 45.2851, 99.5272)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# **Color**

**XYZ(40.6455, 45.2851,  
99.5272)**

# Conversions

## Conversions Part 1

Format	Color
Hex	63BBFD
RGB	99, 187, 253
RGB Percent	39%, 73%, 99%
CMY	0.6117, 0.2667, 0.0078
CMYK	0.61, 0.26, 0.00, 0.01
HSL	206°, 97%, 69%
HSV	206°, 61%, 99%
XYZ	40.6455, 45.2851, 99.5272
YIQ	168.2120, -73.6340, 1.8700

# Conversions

## Conversions Part 2

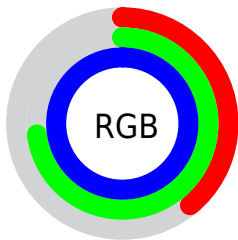
Format	Color
R <sub>Y</sub> B	99, 155, 253
Decimal	6536189
CIE Lab	73.08, -7.26, -40.51
CIE LCh	73, 41.160, 259.837
Yxy	45.2851, 0.2192, 0.2442
Android (android.graphics.Color)	4284726269 (0xFF63BBFD)
YUV	168.2120, 41.8005, -60.6989
Hunter-Lab	67.2942, -9.9514, -40.5831

# Details

The XYZ color **40.6455, 45.2851, 99.5272** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **56.2173, 48.6965, 18.2428**, and the grayscale version is **37.1522, 39.0870, 42.5658**.

A 20% lighter version of the original color is **64.7985, 78.8983, 106.4214**, and **18.6269, 21.1069, 55.3168** is the 20% darker color. If you saturate the color by 10%, you get **36.0880, 39.6494, 98.6805**, and if you desaturate by 10%, it is **46.2454, 51.7176, 100.4745**.

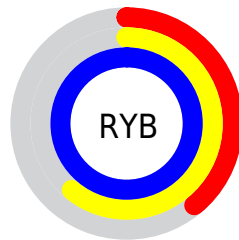
# Distribution



Red (39%)

Green (73%)

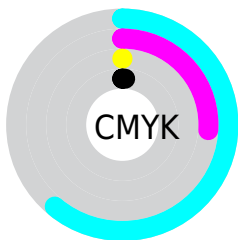
Blue (99%)



Red (39%)

Yellow (61%)

Blue (99%)

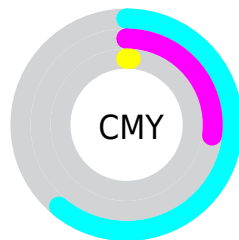


Cyan (61%)

Magenta (26%)

Yellow (0%)

Black (1%)



Cyan (61%)

Magenta (27%)

Yellow (1%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.6455, 45.2851, 99.5272 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 40.6455, 45.2851, 99.5272 by changing the saturation by 10% instead.



40.6455, 45.2851,  
99.5272

40.6455, 45.2851,  
99.5272

339.9248,  
367.9270, 579.9095

28.2286, 31.6820,  
75.2911

75.4236, 83.1481,  
162.5535

18.6394, 21.1188,  
55.3482

98.5155, 108.1768,  
202.1807

11.5125, 13.2108,  
39.2801

125.8965,  
137.7828, 247.7754

6.4825, 7.5739,  
26.6682

157.9319,  
172.3506, 299.7561

3.1840, 3.8235,  
17.0939

194.9870,  
212.2645, 358.5413

1.2518, 1.5753,  
10.1388

237.4273,

0.1467, 0.3409,

257.9090, 424.5496

5.3843

285.6181,  
309.6683, 498.1995

■ 0.0000, 0.0000,  
2.4118

■ 0.0000, 0.0000,  
0.7929

■ 40.6455, 45.2851,  
99.5272

■ 40.6455, 45.2851,  
99.5272

■ 36.0880, 39.6494,  
98.6805

■ 46.2454, 51.7176,  
100.4745

■ 32.4803, 34.7547,  
97.9259

■ 52.9597, 58.9872,  
101.5238

■ 29.7194, 30.5430,  
97.2584

■ 60.8589, 67.1363,  
102.6804

■ 27.7895, 27.2114,  
96.7171

■ 70.0062, 76.2026,  
103.9483

■ 80.4599, 86.2212,  
105.3311

■ 92.2743, 97.2250,  
106.8324

■ 94.7298, 99.8719,  
107.2139

# Harmonies

## Analogous

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



34.7174, 45.2851, 86.2315



40.6455, 45.2851, 99.5272



47.9123, 45.2851, 96.7893

# Triad

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



40.6455, 45.2851, 99.5272



57.4201, 45.2851, 37.0417



33.3068, 45.2851, 27.9041

# Complementary

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



40.6455, 45.2851, 99.5272



56.2173, 48.6965, 18.2428

# 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.



38.5137, 45.2851, 20.6279



40.6455, 45.2851, 99.5272



52.6014, 45.2851, 24.7934

# Square

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



40.6455, 45.2851, 99.5272



58.1553, 45.2851, 56.6390



45.5312, 45.2851, 19.6751



30.8042, 45.2851, 42.6381



# Rectangle

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



40.6455, 45.2851, 99.5272



52.5323, 45.2851, 86.4427



45.5312, 45.2851, 19.6751



34.7698, 45.2851, 24.7016

# Sweetspot

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



40.6471, 45.2867, 99.5283



74.1752, 80.3946, 106.2160



46.8984, 75.5549, 46.8428



15.2438, 16.5943, 22.6495



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.



40.6471, 45.2867, 99.5283



35.8663, 39.2252, 100.2886



28.6529, 21.2982, 95.5302



17.8647, 19.1011, 22.9953



14.9305, 14.7705, 51.4987



1.5622, 1.6551, 5.0504



# Inverse Universe

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



53.9409, 33.3960, 50.6181



51.1183, 28.6016, 43.4970



73.9706, 84.2032, 24.1606



18.4444, 18.1611, 20.9572



24.3244, 12.2191, 15.6247

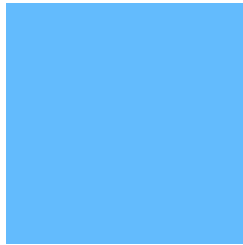


2.4231, 1.2116, 1.8097



# Previews

## White Background



This preview shows how the XYZ color 40.6455, 45.2851, 99.5272 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

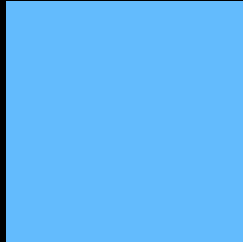
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 40.6455, 45.2851, 99.5272 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

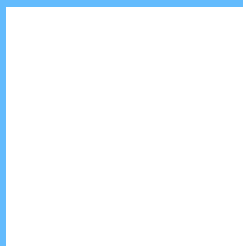
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 40.6455, 45.2851, 99.5272**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.6455, 45.2851, 99.5272.



This preview shows how white text looks on a background with the XYZ color 40.6455, 45.2851,



# 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

40.6455, 45.2851, 99.5272

### Protanopia

45.9550, 44.8514, 91.8231

### Deuteranopia

46.1666, 45.0538, 100.8708



## Tritanopia

34.5812, 45.4388, 68.5760

# Trichromacy



## Original Color

40.6455, 45.2851, 99.5272

## Protanomaly

43.4263, 44.6763, 94.3303

## Deuteranomaly

43.7733, 45.0288, 100.1503

## Tritanomaly

36.5076, 45.2165, 78.7550

# Monochromacy



## Original Color

40.6455, 45.2851, 99.5272

## Achromatopsia

37.2190, 39.1572, 42.6422

## Achromatomaly

36.9665, 40.6231, 59.9255

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.6455, 45.2851, 99.5272 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(99, 187, 253)` looks like.

```
.text, #text, p{  
    color:rgb(99, 187, 253)  
}
```

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(99, 187, 253) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(99, 187, 253) }
```

## Border

The CSS property to change the border of an element to XYZ 40.6455, 45.2851, 99.5272 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(99, 187, 253) }
```



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

```
.border{ border-color:rgb(99, 187, 253) }
```

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

Here you see how a box with a 4 pixel `rgb(99, 187, 253)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(99, 187, 253); -webkit-box-  
shadow:4px 4px 4px 4px rgb(99, 187, 253);  
box-shadow:4px 4px 4px 4px rgb(99, 187,  
253) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.6455, 45.2851, 99.5272 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(99, 187, 253) }
```

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

```
.background{ background-color: rgb(99, 187,  
253) }
```

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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