

# Converting Colors

XYZ(46.0351, 44.2463,  
156.0486)

Have a look what the booklet for  
XYZ(46.0351, 44.2463, 156.0486)  
contains.

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# Color

**XYZ(35.5353, 40.1640,  
100.4873)**

# Conversions

## Conversions Part 1

Format	Color
Hex	33B3FF
RGB	51, 179, 255
RGB Percent	20%, 70%, 100%
CMY	0.7999, 0.2980, 0.0000
CMYK	0.80, 0.30, 0.00, 0.00
HSL	202°, 100%, 60%
HSV	202°, 80%, 100%
XYZ	35.5353, 40.1640, 100.4873
YIQ	149.3920, -100.6840, -3.5000

# Conversions

## Conversions Part 2

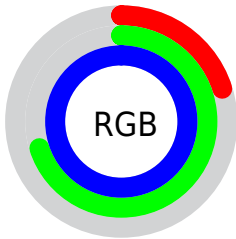
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	51, 130, 255
Decimal	3388415
CIE Lab	69.59, -8.71, -47.16
CIE LCh	70, 47.956, 259.541
Yxy	40.1640, 0.2017, 0.2280
Android (android.graphics.Color)	4281578495 (0xFF33B3FF)
YUV	149.3920, 52.0647, -86.2898
Hunter-Lab	63.3751, -10.8189, -49.6475

# Details

The XYZ color **35.5353, 40.1640, 100.4873** is a light color, and the websafe version is hex **3399CC**. The color can be described as light washed azure. A complement of this color would be **49.4293, 36.6819, 7.6091**, and the grayscale version is **28.5526, 30.0395, 32.7131**.

A 20% lighter version of the original color is **56.6604, 71.2259, 105.3694**, and **17.7824, 19.2560, 56.2056** is the 20% darker color. If you saturate the color by 10%, you get **32.7452, 35.9962, 99.8298**, and if you desaturate by 10%, it is **39.1626, 44.9593, 101.2217**.

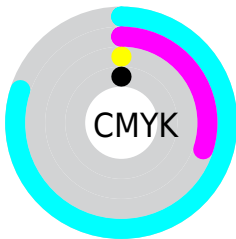
# Distribution



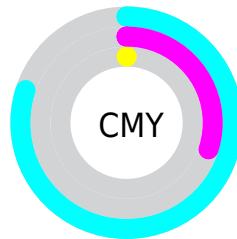
- Red (20%)
- Green (70%)
- Blue (100%)



- Red (20%)
- Yellow (51%)
- Blue (100%)



- Cyan (80%)
- Magenta (30%)
- Yellow (0%)
- Black (0%)



- Cyan (80%)
- Magenta (30%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 35.5353, 40.1640, 100.4873 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 35.5353, 40.1640, 100.4873 by changing the saturation by 10% instead.



■ 35.5353, 40.1640,  
100.4873

■ 35.5353, 40.1640,  
100.4873

318.3916,  
346.8143, 583.0139

■ 24.2440, 27.6664,  
76.0884

■ 67.6428, 75.4132,  
163.8844

■ 15.6404, 18.0744,  
55.9979

■ 89.1896, 98.9336,  
203.7197

■ 9.3593, 11.0034,  
39.7973

■ 114.8857,  
126.8971, 249.5375

■ 5.0352, 6.0691,  
27.0679

■ 145.0963,  
159.6880, 301.7565

■ 2.3029, 2.8872,  
17.3914

180.1869,  
197.6908, 360.7950

■ 0.7962, 1.0731,  
10.3490

220.5227,

■ 0.0000, 0.0000,

241.2899, 427.0718

5.5224

266.4692,  
290.8696, 501.0052

■ 0.0000, 0.0000,  
2.4928

■ 0.0000, 0.0000,  
0.8364

■ 35.5353, 40.1640,  
100.4873

■ 35.5353, 40.1640,  
100.4873

■ 32.7452, 35.9962,  
99.8298

■ 39.1626, 44.9593,  
101.2217

■ 30.6212, 32.3620,  
99.2403

■ 43.7263, 50.4354,  
102.0381

■ 30.6198, 32.3596,  
99.2399

■ 49.3147, 56.6420,  
102.9416

■ 56.0041, 63.6219,  
103.9363

■ 63.8629, 71.4140,  
105.0261

■ 72.9537, 80.0539,  
106.2146

■ 83.3342, 89.5747,  
107.5052

■ 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.



29.3060, 40.1640, 84.8556



35.5353, 40.1640, 100.4873



43.3738, 40.1640, 97.4754

# Triad

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



35.5353, 40.1640, 100.4873



53.9937, 40.1640, 30.9648



27.9307, 40.1640, 21.4889

# Complementary

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



35.5353, 40.1640, 100.4873



49.4293, 36.6819, 7.6091

# 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.



33.4085, 40.1640, 14.6006



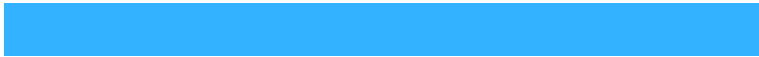
35.5353, 40.1640, 100.4873



48.6732, 40.1640, 18.6514

# Square

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



35.5353, 40.1640, 100.4873



54.7661, 40.1640, 51.9376



40.9416, 40.1640, 13.7757



25.3263, 40.1640, 36.4392



# Rectangle

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



35.5353, 40.1640, 100.4873



48.4585, 40.1640, 85.5410



40.9416, 40.1640, 13.7757



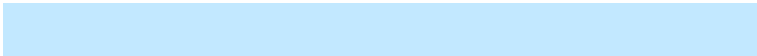
29.4596, 40.1640, 18.4035

# Sweetspot

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



35.5366, 40.1653, 100.4874



69.1594, 76.4880, 105.7263



40.8798, 73.7258, 31.7507



14.1174, 15.7180, 22.5398



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

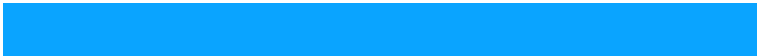


# Same Dimension

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



35.5366, 40.1653, 100.4874



31.4164, 33.7633, 99.4689



22.1558, 13.4037, 96.0272



17.9528, 19.2772, 23.0246



16.1475, 17.2045, 51.9043



1.6771, 1.8848, 5.0887



# Inverse Universe

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



50.5615, 26.8839, 45.1731



48.0330, 24.1543, 37.1554



69.5270, 76.8773, 14.3083



18.4888, 18.1788, 21.1913



24.9387, 12.4648, 18.8595



2.4811, 1.2348, 2.1149



# Previews

## White Background



This preview shows how the XYZ color 35.5353, 40.1640, 100.4873 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

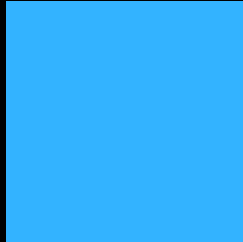
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 35.5353, 40.1640, 100.4873 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

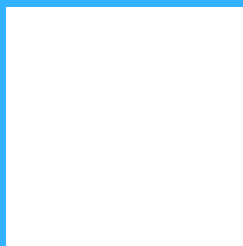
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 35.5353, 40.1640, 100.4873**

## **Background**



This preview shows how black text looks on a background with the XYZ color 35.5353, 40.1640, 100.4873.



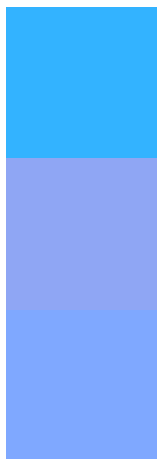
This preview shows how white text looks on a background with the XYZ color 35.5353, 40.1640,



# 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

35.5353, 40.1640, 100.4873

### Protanopia

41.2930, 39.6437, 91.0636

### Deuteranopia

40.8050, 39.7373, 100.1271



## Tritanopia

28.6439, 40.2307, 62.1327

# Trichromacy



## Original Color

35.5353, 40.1640, 100.4873

## Protanomaly

37.9366, 39.2181, 94.3773

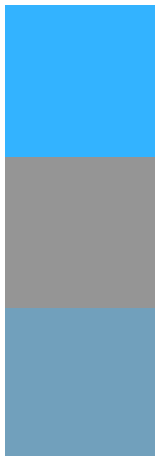
## Deuteranomaly

37.9481, 39.3777, 100.2083

## Tritanomaly

30.6687, 40.0568, 74.5219

# Monochromacy



## Original Color

35.5353, 40.1640, 100.4873

## Achromatopsia

28.5667, 30.0544, 32.7292

## Achromatomaly

28.4580, 32.2832, 52.3083

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 35.5353, 40.1640, 100.4873 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, 179, 255)` looks like.

```
.text, #text, p{  
    color:rgb(51, 179, 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, 179, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 179, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 35.5353, 40.1640, 100.4873 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, 179, 255) }
```



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

```
.border{ border-color:rgb(51, 179, 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, 179, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 179, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 179, 255);  
box-shadow:4px 4px 4px 4px rgb(51, 179,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 35.5353, 40.1640, 100.4873 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 179, 255) }
```

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

```
.background{ background-color: rgb(51, 179,  
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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