

# Converting Colors

XYZ(35.8888, 42.0765,  
100.8378)

Have a look what the booklet for  
XYZ(35.8888, 42.0765, 100.8378)  
contains.

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# Color

**XYZ(35.9640, 42.2092,  
100.8594)**

# Conversions

## Conversions Part 1

Format	Color
Hex	1FB9FF
RGB	31, 185, 255
RGB Percent	12%, 73%, 100%
CMY	0.8783, 0.2745, 0.0000
CMYK	0.88, 0.27, 0.00, 0.00
HSL	199°, 100%, 56%
HSV	199°, 88%, 100%
XYZ	35.9640, 42.2092, 100.8594
YIQ	146.9340, -114.2540, -10.8780

# Conversions

## Conversions Part 2

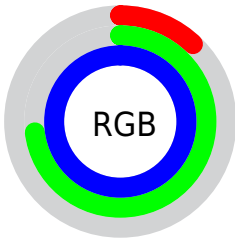
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	31, 122, 255
Decimal	2079231
CIE <sub>Lab</sub>	71.01, -13.42, -44.94
CIE <sub>LCh</sub>	71, 46.897, 253.370
Yxy	42.2092, 0.2009, 0.2358
Android (android.graphics.Color)	4280269311 (0xFF1FB9FF)
YUV	146.9340, 53.2765, -101.6741
Hunter-Lab	64.9686, -14.8847, -46.5657

# Details

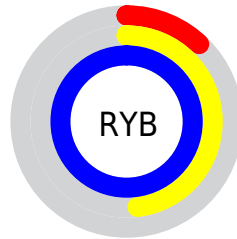
The XYZ color **35.9640, 42.2092, 100.8594** is a light color, and the websafe version is hex **66CCFF**. The color can be described as light washed azure. A complement of this color would be **46.1442, 30.6720, 4.7867**, and the grayscale version is **27.5309, 28.9646, 31.5425**.

A 20% lighter version of the original color is **57.2510, 74.1237, 105.8976**, and **18.4443, 20.5797, 56.4262** is the 20% darker color. If you saturate the color by 10%, you get **33.8478, 38.7128, 100.2961**, and if you desaturate by 10%, it is **38.7744, 46.2035, 101.4823**.

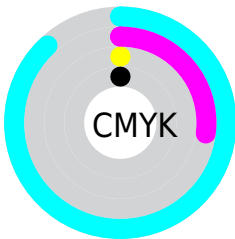
# Distribution



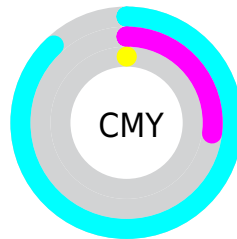
- Red (12%)
- Green (73%)
- Blue (100%)



- Red (12%)
- Yellow (48%)
- Blue (100%)



- Cyan (88%)
- Magenta (27%)
- Yellow (0%)
- Black (0%)



- Cyan (88%)
- Magenta (27%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 35.9640, 42.2092, 100.8594 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 35.9640, 42.2092, 100.8594 by changing the saturation by 10% instead.



■ 35.9640, 42.2092,  
100.8594

■ 35.9640, 42.2092,  
100.8594

320.2372,  
355.3494, 584.2147

■ 24.5764, 29.2651,  
76.3976

■ 68.3007, 78.5161,  
164.3999

■ 15.8888, 19.2815,  
56.2500

■ 89.9805, 102.6478,  
204.3156

■ 9.5358, 11.8738,  
39.9980

■ 115.8218,  
131.2775, 250.2197

■ 5.1522, 6.6578,  
27.2232

■ 146.1899,  
164.7895, 302.5307

■ 2.3725, 3.2490,  
17.5070

■ 181.4501,  
203.5683, 361.6671

■ 0.8314, 1.2631,  
10.4309

221.9678,

■ 0.0000, 0.1124,

247.9983, 428.0476

5.5762

268.1084,  
298.4639, 502.0906

■ 0.0000, 0.0000,  
2.5246

■ 0.0000, 0.0000,  
0.8531

■ 35.9640, 42.2092,  
100.8594

■ 35.9640, 42.2092,  
100.8594

■ 33.8478, 38.7128,  
100.2961

■ 38.7744, 46.2035,  
101.4823

■ 33.4392, 37.9983,  
100.1797

■ 42.4053, 50.7611,  
102.1706

■ 46.9560, 55.9360,  
102.9296

■ 52.5098, 61.7732,  
103.7636

■ 59.1399, 68.3125,  
104.6764

■ 66.9124, 75.5899,  
105.6714

■ 75.8879, 83.6388,  
106.7519

■ 86.1223, 92.4899,  
107.9209

■ 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.



30.1432, 42.2092, 82.3632



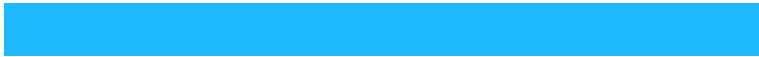
35.9640, 42.2092, 100.8594



43.7001, 42.2092, 101.9348

# Triad

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



35.9640, 42.2092, 100.8594



56.6130, 42.2092, 36.6954



30.6462, 42.2092, 21.2084

# Complementary

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



35.9640, 42.2092, 100.8594



46.1442, 30.6720, 4.7867

# 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.



36.7383, 42.2092, 15.4869



35.9640, 42.2092, 100.8594



52.0827, 42.2092, 22.2606

# Square

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



35.9640, 42.2092, 100.8594



56.3347, 42.2092, 59.4295



44.5814, 42.2092, 15.7962



27.3576, 42.2092, 34.6947



# Rectangle

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



35.9640, 42.2092, 100.8594



48.9786, 42.2092, 92.1666



44.5814, 42.2092, 15.7962



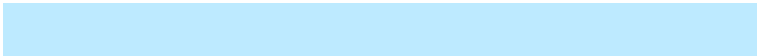
32.3972, 42.2092, 18.5437

# Sweetspot

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



35.9654, 42.2105, 100.8596



68.4642, 77.0051, 105.8628



38.5411, 72.6978, 23.6110



14.0331, 15.9139, 22.5820



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

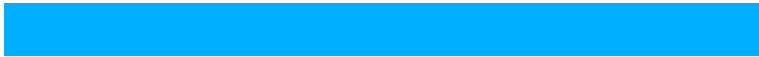


# Same Dimension

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



35.9654, 42.2105, 100.8596



33.4392, 37.9983, 100.1797



21.1884, 12.6565, 95.9339



18.0479, 19.4674, 23.0563



17.6121, 20.1339, 52.3926



1.8125, 2.1557, 5.1338



# Inverse Universe

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



50.4880, 25.7444, 48.2082



49.0077, 24.3671, 42.8344



64.5853, 67.5541, 10.9337



18.5368, 18.1980, 21.4440



25.6780, 12.7605, 22.7526

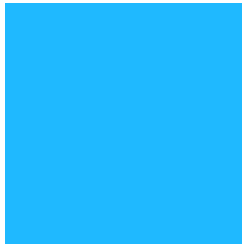


2.5495, 1.2622, 2.4750



# Previews

## White Background



This preview shows how the XYZ color 35.9640, 42.2092, 100.8594 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

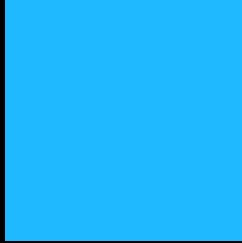
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 35.9640, 42.2092, 100.8594 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

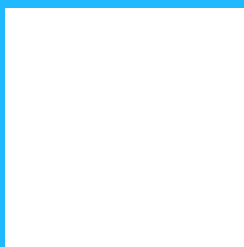
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 35.9640, 42.2092, 100.8594

## Background



This preview shows how black text looks on a background with the XYZ color 35.9640, 42.2092, 100.8594.



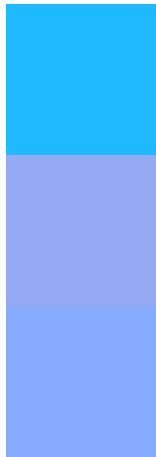
This preview shows how white text looks on a background with the XYZ color 35.9640, 42.2092,



# 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

35.9640, 42.2092, 100.8594

### Protanopia

43.1301, 41.7045, 90.5706

### Deuteranopia

42.7942, 41.8759, 100.4351



## Tritanopia

29.9902, 42.1555, 64.9487

# Trichromacy



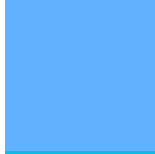
## Original Color

35.9640, 42.2092, 100.8594



## Protanomaly

38.1819, 40.5011, 93.8008



## Deuteranomaly

38.7019, 41.2057, 100.5214



## Tritanomaly

31.7902, 41.8482, 76.9230

# Monochromacy



## Original Color

35.9640, 42.2092, 100.8594



## Achromatopsia

27.7328, 29.1771, 31.7738



## Achromatomaly

27.4335, 32.0382, 51.1925

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 35.9640, 42.2092, 100.8594 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(31, 185, 255)` looks like.

```
.text, #text, p{  
    color:rgb(31, 185, 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(31, 185, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(31, 185, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 35.9640, 42.2092, 100.8594 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(31, 185, 255) }
```



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

```
.border{ border-color:rgb(31, 185, 255) }
```

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

Here you see how a box with a 4 pixel rgb(31, 185, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(31, 185, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(31, 185, 255);  
box-shadow:4px 4px 4px 4px rgb(31, 185,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 35.9640, 42.2092, 100.8594 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(31, 185, 255) }
```

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

```
.background{ background-color: rgb(31, 185,  
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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