

# Converting Colors

XYZ(36.0488, 41.5232,  
103.2042)

Have a look what the booklet for  
XYZ(36.0488, 41.5232, 103.2042)  
contains.

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# **Color**

**XYZ(35.6107, 41.4103,  
100.7238)**

# Conversions

## Conversions Part 1

Format	Color
Hex	21B7FF
RGB	33, 183, 255
RGB Percent	13%, 72%, 100%
CMY	0.8705, 0.2823, 0.0000
CMYK	0.87, 0.28, 0.00, 0.00
HSL	199°, 100%, 56%
HSV	199°, 87%, 100%
XYZ	35.6107, 41.4103, 100.7238
YIQ	146.3580, -112.5120, -9.4080

# Conversions

## Conversions Part 2

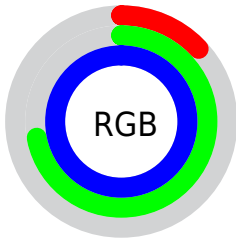
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	33, 123, 255
Decimal	2209791
CIE Lab	70.46, -12.23, -45.80
CIE LCh	70, 47.405, 255.052
Yxy	41.4103, 0.2003, 0.2330
Android (android.graphics.Color)	4280399871 (0xFF21B7FF)
YUV	146.3580, 53.5605, -99.4150
Hunter-Lab	64.3508, -13.8350, -47.7568

# Details

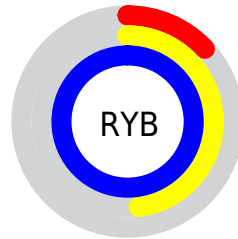
The XYZ color **35.6107, 41.4103, 100.7238** is a light color, and the websafe version is hex **66CCFF**. The color can be described as light washed azure. A complement of this color would be **46.5694, 31.4790, 5.0627**, and the grayscale version is **27.2927, 28.7141, 31.2696**.

A 20% lighter version of the original color is **56.6622, 72.9461, 105.7013**, and **18.1757, 20.0425, 56.3367** is the 20% darker color. If you saturate the color by 10%, you get **33.4219, 37.8238, 100.1470**, and if you desaturate by 10%, it is **38.5164, 45.5164, 101.3633**.

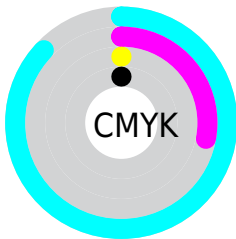
# Distribution



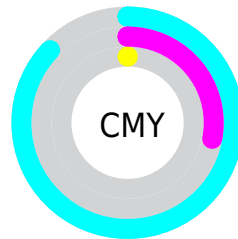
- Red (13%)
- Green (72%)
- Blue (100%)



- Red (13%)
- Yellow (48%)
- Blue (100%)



- Cyan (87%)
- Magenta (28%)
- Yellow (0%)
- Black (0%)



- Cyan (87%)
- Magenta (28%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 35.6107, 41.4103, 100.7238 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 35.6107, 41.4103, 100.7238 by changing the saturation by 10% instead.



■ 35.6107, 41.4103,  
100.7238

■ 35.6107, 41.4103,  
100.7238

318.7168,  
352.0325, 583.7772

■ 24.3024, 28.6398,  
76.2849

■ 67.7586, 77.3064,  
164.2120

■ 15.6840, 18.8085,  
56.1581

■ 89.3289, 101.2007,  
204.0985

■ 9.3903, 11.5320,  
39.9249

■ 115.0505,  
129.5718, 249.9711

■ 5.0557, 6.4259,  
27.1666

■ 145.2889,  
162.8041, 302.2486

■ 2.3151, 3.1057,  
17.4649

■ 180.4093,  
201.2819, 361.3494

■ 0.8024, 1.1872,  
10.4010

220.7772,

■ 0.0000, 0.0512,

245.3897, 427.6921

5.5566

266.7579,  
295.5117, 501.6952

■ 0.0000, 0.0000,  
2.5130

■ 0.0000, 0.0000,  
0.8470

■ 35.6107, 41.4103,  
100.7238

■ 35.6107, 41.4103,  
100.7238

■ 33.4219, 37.8238,  
100.1470

■ 38.5164, 45.5164,  
101.3633

■ 32.8574, 36.8348,  
99.9858

■ 42.2578, 50.2040,  
102.0709

■ 46.9331, 55.5268,  
102.8519

■ 52.6247, 61.5296,  
103.7105

■ 59.4055, 68.2523,  
104.6507

■ 67.3412, 75.7310,  
105.6760

■ 76.4921, 83.9990,  
106.7896

■ 86.9140, 93.0872,  
107.9945

■ 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.



29.6734, 41.4103, 82.8976



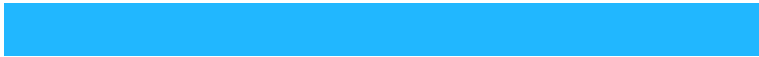
35.6107, 41.4103, 100.7238



43.3899, 41.4103, 100.6896

# Triad

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



35.6107, 41.4103, 100.7238



55.7180, 41.4103, 34.8155



29.6576, 41.4103, 21.0160

# Complementary

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



35.6107, 41.4103, 100.7238



46.5694, 31.4790, 5.0627

# 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.



35.5863, 41.4103, 15.0003



35.6107, 41.4103, 100.7238



50.9521, 41.4103, 20.9831

# Square

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



35.6107, 41.4103, 100.7238



55.7268, 41.4103, 57.1195



43.3620, 41.4103, 14.9907



26.5584, 41.4103, 34.8784



# Rectangle

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



35.6107, 41.4103, 100.7238



48.6306, 41.4103, 90.2645



43.3620, 41.4103, 14.9907



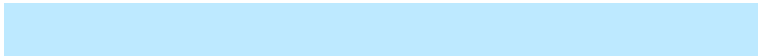
31.3482, 41.4103, 18.2469

# Sweetspot

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



35.6121, 41.4116, 100.7240



68.2411, 76.5589, 105.7884



38.8525, 72.8296, 24.9264



13.9798, 15.8074, 22.5643



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

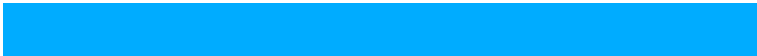


# Same Dimension

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



35.6121, 41.4116, 100.7240



32.8574, 36.8348, 99.9858



21.1086, 12.4048, 95.8896



18.0291, 19.4298, 23.0500



17.3103, 19.5301, 52.2919



1.7848, 2.1003, 5.1246



# Inverse Universe

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



50.3322, 25.7684, 47.1218



48.7141, 24.2496, 41.2881



65.6389, 69.6180, 11.4192



18.5273, 18.1942, 21.3941



25.5256, 12.6995, 21.9502

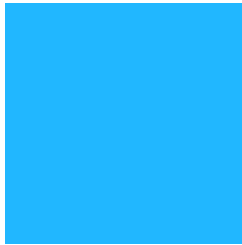


2.5355, 1.2566, 2.4013



# Previews

## White Background



This preview shows how the XYZ color 35.6107, 41.4103, 100.7238 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

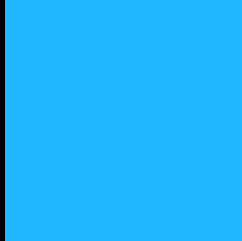
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 35.6107, 41.4103, 100.7238 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

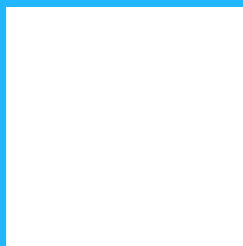
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 35.6107, 41.4103, 100.7238

## Background



This preview shows how black text looks on a background with the XYZ color 35.6107, 41.4103, 100.7238.



This preview shows how white text looks on a background with the XYZ color 35.6107, 41.4103,



# 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

35.6107, 41.4103, 100.7238

### Protanopia

42.2129, 40.6794, 90.4211

### Deuteranopia

41.9404, 40.8750, 100.2869



## Tritanopia

29.4329, 41.2347, 64.1654

# Trichromacy



**Original Color**

35.6107, 41.4103, 100.7238

**Protanomaly**

37.6759, 39.6667, 93.6664

**Deuteranomaly**

38.2038, 40.3667, 100.3857

**Tritanomaly**

31.2412, 40.9465, 76.0689

# Monochromacy



**Original Color**

35.6107, 41.4103, 100.7238

**Achromatopsia**

27.3213, 28.7441, 31.3023

**Achromatomaly**

27.0868, 31.3447, 51.0769

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 35.6107, 41.4103, 100.7238 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(33, 183, 255)` looks like.

```
.text, #text, p{  
    color:rgb(33, 183, 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(33, 183, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(33, 183, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 35.6107, 41.4103, 100.7238 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(33, 183, 255) }
```



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

```
.border{ border-color:rgb(33, 183, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(33, 183, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(33, 183, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(33, 183, 255);  
box-shadow:4px 4px 4px 4px rgb(33, 183,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 35.6107, 41.4103, 100.7238 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(33, 183, 255) }
```

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

```
.background{ background-color: rgb(33, 183,  
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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