

# Converting Colors

$Y_{xy}(40.9672, 0.1997, 0.2315)$

Have a look what the booklet for  
Yxy(40.9672, 0.1997, 0.2315)  
contains.

<b>Yxy(40.9672, 0.1997, 0.2315)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(40.9672, 0.1997, 0.2315)**

# Conversions

## Conversions Part 1

Format	Color
Hex	1FB6FF
RGB	31, 182, 255
RGB Percent	12%, 71%, 100%
CMY	0.8790, 0.2862, 0.0000
CMYK	0.88, 0.29, 0.00, 0.00
HSL	200°, 100%, 56%
HSV	200°, 88%, 100%
XYZ	35.3397, 40.9672, 100.6572
YIQ	145.1730, -113.4290, -9.3090

# Conversions

## Conversions Part 2

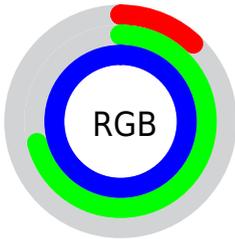
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	31, 121, 255
Decimal	2078463
CIE Lab	70.15, -11.81, -46.29
CIE LCh	70, 47.774, 255.687
Yxy	40.9672, 0.1997, 0.2315
Android (android.graphics.Color)	4280268543 (0xFF1FB6FF)
YUV	145.1730, 54.1447, -100.1297
Hunter-Lab	64.0056, -13.4538, -48.4373

# Details

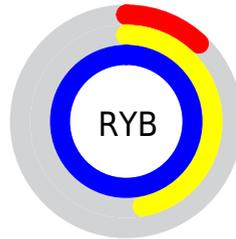
The Yxy color **40.9672, 0.1997, 0.2315** is a light color, and the websafe version is hex **66CCFF**. The color can be described as light washed azure. A complement of this color would be **31.2276, 0.5626, 0.3784**, and the grayscale version is **28.1828, 0.3127, 0.3290**.

A 20% lighter version of the original color is **72.3621, 0.2406, 0.3088**, and **19.7777, 0.1917, 0.2101** is the 20% darker color. If you saturate the color by 10%, you get **37.4124, 0.1945, 0.2192**, and if you desaturate by 10%, it is **45.0331, 0.2069, 0.2441**.

# Distribution



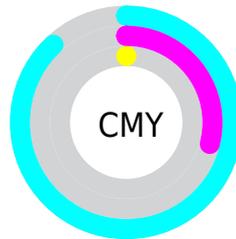
- Red (12%)
- Green (71%)
- Blue (100%)



- Red (12%)
- Yellow (47%)
- Blue (100%)



- Cyan (88%)
- Magenta (29%)
- Yellow (0%)
- Black (0%)



- Cyan (88%)
- Magenta (29%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 40.9672, 0.1997, 0.2315 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 Yxy color 40.9672, 0.1997, 0.2315 by changing the saturation by 10% instead.



 40.9672, 0.1997,  
0.2315

 40.9672, 0.1997,  
0.2315

350.1835, 0.2538,  
0.2799

 28.2935, 0.1873,  
0.2200

 76.6341, 0.2186,  
0.2487

 18.5470, 0.1722,  
0.2056

 100.3960, 0.2259,  
0.2553

 11.3434, 0.1533,  
0.1875

 128.6228, 0.2322,  
0.2609

 6.2983, 0.1297,  
0.1639

 161.6989, 0.2377,  
0.2658

 3.0273, 0.0999,  
0.1331

 200.0086, 0.2424,  
0.2700

 1.1460, 0.0634,  
0.0931

243.9363, 0.2467,

 0.0169, 0.0000,

0.2737

0.0030

293.8665, 0.2504,  
0.2769

■ 0.0000, 0.0000,  
0.0000

■ 40.9672, 0.1997,  
0.2315

■ 40.9672, 0.1997,  
0.2315

■ 37.4124, 0.1945,  
0.2192

■ 45.0331, 0.2069,  
0.2441

■ 36.7101, 0.1935,  
0.2166

■ 49.6775, 0.2163,  
0.2567

■ 54.9544, 0.2275,  
0.2692

■ 60.9094, 0.2404,  
0.2812

■ 67.5826, 0.2544,  
0.2927

■ 75.0106, 0.2694,  
0.3035

■ 83.2268, 0.2849,  
0.3134

■ 92.2624, 0.3005,  
0.3225

■ 100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



40.9672, 0.1914, 0.2671



40.9672, 0.1997, 0.2315



40.9672, 0.2341, 0.2223

# Triad

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



40.9672, 0.1997, 0.2315



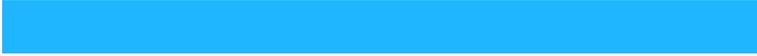
40.9672, 0.4245, 0.3147



40.9672, 0.3206, 0.4507

# Complementary

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



40.9672, 0.1997, 0.2315



31.2276, 0.5626, 0.3784

# 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.



40.9672, 0.3862, 0.4519



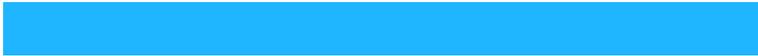
40.9672, 0.1997, 0.2315



40.9672, 0.4512, 0.3667

# Square

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



40.9672, 0.1997, 0.2315



40.9672, 0.3633, 0.2687



40.9672, 0.4352, 0.4168



40.9672, 0.2564, 0.4021



# Rectangle

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



40.9672, 0.1997, 0.2315



40.9672, 0.2705, 0.2291



40.9672, 0.4352, 0.4168



40.9672, 0.3433, 0.4564

# Sweetspot

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



40.9681, 0.1997, 0.2315



76.5106, 0.2723, 0.3054



72.7650, 0.2846, 0.5350



15.7959, 0.2670, 0.3018



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

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



40.9681, 0.1997, 0.2315



36.7101, 0.1935, 0.2166



12.1369, 0.1623, 0.0942



19.4257, 0.2980, 0.3211



19.4654, 0.1941, 0.2187



2.0944, 0.1980, 0.2327



# Inverse Universe

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



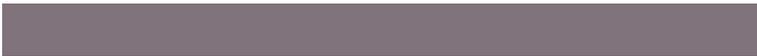
25.6100, 0.4101, 0.2093



24.2370, 0.4269, 0.2125



69.4039, 0.4483, 0.4749



18.1938, 0.3188, 0.3131



12.6930, 0.4247, 0.2113

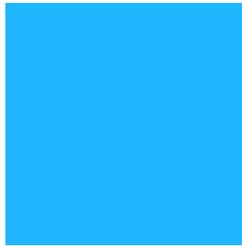


1.2560, 0.4098, 0.2031



# Previews

## White Background



This preview shows how the Yxy color 40.9672, 0.1997, 0.2315 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

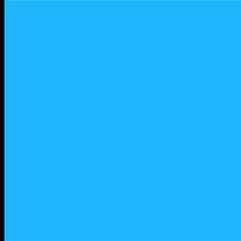
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 40.9672, 0.1997, 0.2315 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

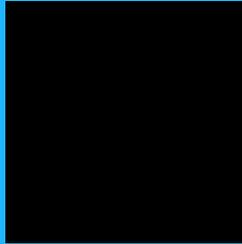
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

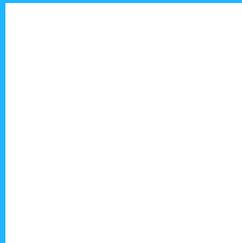
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 40.9672, 0.1997, 0.2315**

## **Background**



This preview shows how black text looks on a background with the Yxy color 40.9672, 0.1997, 0.2315.



This preview shows how white text looks on a background with the Yxy color 40.9672, 0.1997, 0.2315.

# 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**

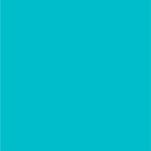
40.9672, 0.1997, 0.2315

**Protanopia**

40.5873, 0.2429, 0.2346

**Deuteranopia**

40.7153, 0.2280, 0.2230



## Tritanopia

40.7548, 0.2183, 0.3057

# Trichromacy



**Original Color**

40.9672, 0.1997, 0.2315

**Protanomaly**

39.5456, 0.2194, 0.2317

**Deuteranomaly**

39.8718, 0.2124, 0.2240

**Tritanomaly**

40.5167, 0.2102, 0.2746

# Monochromacy



**Original Color**

40.9672, 0.1997, 0.2315

**Achromatopsia**

28.3149, 0.3127, 0.3290

**Achromatomaly**

30.8401, 0.2464, 0.2859

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 40.9672, 0.1997, 0.2315 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, 182, 255)` looks like.

```
.text, #text, p{  
    color:rgb(31, 182, 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, 182, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(31, 182, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 40.9672, 0.1997, 0.2315 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, 182, 255) }
```

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

```
.border{ border-color:rgb(31, 182, 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, 182, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(31, 182, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(31, 182, 255);  
box-shadow:4px 4px 4px 4px rgb(31, 182,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 40.9672, 0.1997, 0.2315 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(31, 182, 255) }
```

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

```
.background{ background-color: rgb(31, 182,  
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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor