

# Converting Colors

$Y_{xy}(36.7925, 0.2253, 0.2089)$

Have a look what the booklet for  
Yxy(36.7925, 0.2253, 0.2089)  
contains.

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# Color

**Yxy(36.7621, 0.2253, 0.2088)**

# Conversions

## Conversions Part 1

Format	Color
Hex	829FFF
RGB	130, 159, 255
RGB Percent	51%, 62%, 100%
CMY	0.4898, 0.3766, 0.0000
CMYK	0.49, 0.38, 0.00, 0.00
HSL	226°, 100%, 76%
HSV	226°, 49%, 100%
XYZ	39.6672, 36.7621, 99.6344
YIQ	161.2730, -48.1000, 23.7080

# Conversions

## Conversions Part 2

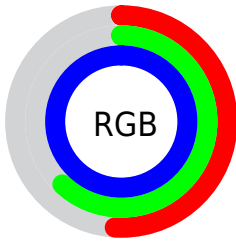
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">130, 154, 255</a>
Decimal	<a href="#">8560639</a>
CIELab	<a href="#">67.10, 15.47, -50.90</a>
CIELCh	<a href="#">67, 53.196, 286.907</a>
Yxy	<a href="#">36.7621, 0.2253, 0.2088</a>
Android (android.graphics.Color)	<a href="#">4286750719 (0xFF829FFF)</a>
YUV	<a href="#">161.2730, 46.2074, -27.4264</a>
Hunter-Lab	<a href="#">60.6318, 10.6746, -54.9873</a>

# Details

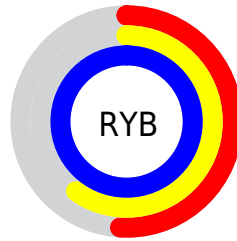
The Yxy color **36.7621, 0.2253, 0.2088** is a light color, and the websafe version is hex **6699FF**. A complement of this color would be **77.3289, 0.3982, 0.4247**, and the grayscale version is **35.5786, 0.3127, 0.3290**.

A 20% lighter version of the original color is **65.4999, 0.2697, 0.2823**, and **16.1044, 0.2014, 0.1794** is the 20% darker color. If you saturate the color by 10%, you get **28.7725, 0.2066, 0.1795**, and if you desaturate by 10%, it is **46.3196, 0.2446, 0.2375**.

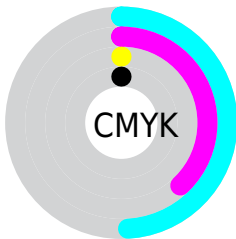
# Distribution



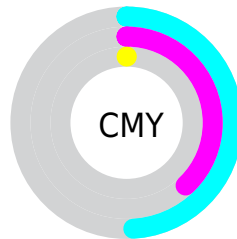
- Red (51%)
- Green (62%)
- Blue (100%)



- Red (51%)
- Yellow (60%)
- Blue (100%)



- Cyan (49%)
- Magenta (38%)
- Yellow (0%)
- Black (0%)




- Cyan (49%)
- Magenta (38%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 36.7621, 0.2253, 0.2088 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 36.7621, 0.2253, 0.2088 by changing the saturation by 10% instead.




 36.7621, 0.2253,  
0.2088

 36.7621, 0.2253,  
0.2088


332.2794, 0.2690,  
0.2662


 25.0233, 0.2148,  
0.1957

 70.2067, 0.2410,  
0.2288

 16.0945, 0.2016,  
0.1797


 92.6814, 0.2469,  
0.2366

 9.5910, 0.1848,  
0.1598


 119.5035, 0.2520,  
0.2432

 5.1286, 0.1629,  
0.1348

151.0575, 0.2564,  
0.2490

 2.3229, 0.1339,  
0.1034

187.7276, 0.2602,  
0.2541

 0.7858, 0.0956,  
0.0649

229.8984, 0.2635,

 0.0000, 0.0132,


0.2586

0.0000


277.9542, 0.2664,  
0.2626


 0.0000, 0.0000,  
0.0000


 36.7621, 0.2253,  
0.2088


 36.7621, 0.2253,  
0.2088


 28.7725, 0.2066,  
0.1795

 46.3196, 0.2446,  
0.2375


 22.2643, 0.1894,  
0.1508


 57.5270, 0.2636,  
0.2644

 17.1398, 0.1749,  
0.1243

 70.4588, 0.2818,  
0.2891

 13.2887, 0.1640,  
0.1016

 85.1853, 0.2987,  
0.3113

 10.5703, 0.1568,  
0.0839

100.0000, 0.3127,  
0.3290

■ 10.3449, 0.1562,  
0.0824

# Harmonies

## Analogous

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



36.7621, 0.1862, 0.2171



36.7621, 0.2253, 0.2088



36.7621, 0.2916, 0.2252

# Triad

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



36.7621, 0.2253, 0.2088



36.7621, 0.4719, 0.3715



36.7621, 0.2446, 0.4113

# Complementary

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



36.7621, 0.2253, 0.2088



77.3289, 0.3982, 0.4247

# 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.



36.7621, 0.3168, 0.4703



36.7621, 0.2253, 0.2088



36.7621, 0.4499, 0.4286

# Square

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



36.7621, 0.2253, 0.2088



36.7621, 0.4440, 0.3136



36.7621, 0.3919, 0.4707



36.7621, 0.1948, 0.3246



# Rectangle

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



36.7621, 0.2253, 0.2088



36.7621, 0.3461, 0.2480



36.7621, 0.3919, 0.4707



36.7621, 0.2670, 0.4365

# Sweetspot

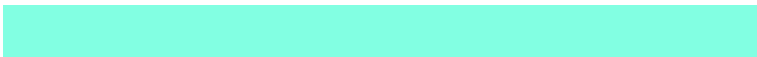
The Sweet Spot groups the original color and five complimentary colors.



36.7617, 0.2253, 0.2088



76.1065, 0.2887, 0.2982



81.7561, 0.2609, 0.3634



15.6426, 0.2851, 0.2934



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.



36.7617, 0.2253, 0.2088



28.7607, 0.2065, 0.1794



31.0386, 0.2415, 0.1818



18.0593, 0.2979, 0.3102



5.5910, 0.1569, 0.0848



0.7017, 0.1625, 0.1051



# Inverse Universe

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



39.7521, 0.4179, 0.2994



33.1458, 0.4533, 0.2950



88.6150, 0.3618, 0.4591



18.0559, 0.3258, 0.3235



11.2924, 0.5993, 0.3075

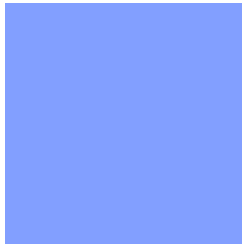


1.1154, 0.5683, 0.2904



# Previews

## White Background



This preview shows how the Yxy color 36.7621, 0.2253, 0.2088 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

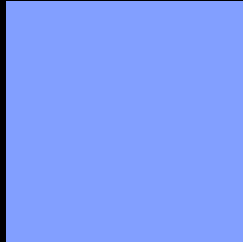
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 36.7621, 0.2253, 0.2088 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 36.7621, 0.2253, 0.2088**

## **Background**



This preview shows how black text looks on a background with the Yxy color 36.7621, 0.2253, 0.2088.



This preview shows how white text looks on a background with the Yxy color 36.7621, 0.2253, 0.2088.

# 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

36.7621, 0.2253, 0.2088

### Protanopia

36.8736, 0.2238, 0.2096

### Deuteranopia

36.9276, 0.2183, 0.2125



## Tritanopia

36.7262, 0.2530, 0.3074

# Trichromacy



## Original Color

36.7621, 0.2253, 0.2088

## Protanomaly

36.9508, 0.2244, 0.2098

## Deuteranomaly

36.9895, 0.2211, 0.2121

## Tritanomaly

36.5406, 0.2419, 0.2660

# Monochromacy



## Original Color

36.7621, 0.2253, 0.2088

## Achromatopsia

35.6400, 0.3127, 0.3290

## Achromatomaly

35.5658, 0.2751, 0.2796

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 36.7621, 0.2253, 0.2088 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(130, 159, 255)` looks like.

```
.text, #text, p{  
    color:rgb(130, 159, 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(130, 159, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(130, 159, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 36.7621, 0.2253, 0.2088 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(130, 159, 255) }
```

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

```
.border{ border-color:rgb(130, 159, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(130, 159, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(130, 159, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(130, 159, 255);  
box-shadow:4px 4px 4px 4px rgb(130, 159,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 36.7621, 0.2253, 0.2088 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(130, 159, 255) }
```

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

```
.background{ background-color: rgb(130,  
159, 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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