

# Converting Colors

$Y_{xy}(33.7242, 0.2126, 0.2010)$

Have a look what the booklet for  
Yxy(33.7242, 0.2126, 0.2010)  
contains.

<b>Yxy(33.7242, 0.2126, 0.2010)</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(33.7242, 0.2126, 0.2010)**

# Conversions

## Conversions Part 1

Format	Color
Hex	6B9BFE
RGB	107, 155, 254
RGB Percent	42%, 61%, 100%
CMY	0.5805, 0.3921, 0.0040
CMYK	0.58, 0.39, 0.00, 0.00
HSL	220°, 99%, 71%
HSV	220°, 58%, 100%
XYZ	35.6705, 33.7242, 98.3874
YIQ	151.9340, -60.3870, 20.6130

# Conversions

## Conversions Part 2

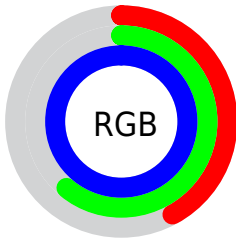
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">107, 143, 254</a>
Decimal	<a href="#">7052286</a>
<a href="#">CIELab</a>	<a href="#">64.74, 12.63, -54.14</a>
<a href="#">CIELCh</a>	<a href="#">65, 55.596, 283.126</a>
<a href="#">Yxy</a>	<a href="#">33.7242, 0.2126, 0.2010</a>
<a href="#">Android (android.graphics.Color)</a>	<a href="#">4285242366 (0xFF6B9BFE)</a>
<a href="#">YUV</a>	<a href="#">151.9340, 50.3185, -39.4071</a>
<a href="#">Hunter-Lab</a>	<a href="#">58.0725, 8.0149, -59.7993</a>

# Details

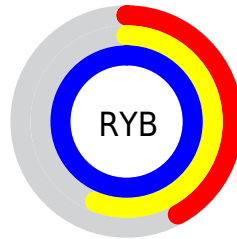
The Yxy color **33.7242, 0.2126, 0.2010** is a light color, and the websafe version is hex **6699FF**. A complement of this color would be **66.2551, 0.4229, 0.4272**, and the grayscale version is **31.1671, 0.3127, 0.3290**.

A 20% lighter version of the original color is **61.1458, 0.2573, 0.2760**, and **14.2892, 0.1855, 0.1686** is the 20% darker color. If you saturate the color by 10%, you get **27.0807, 0.1963, 0.1749**, and if you desaturate by 10%, it is **41.6383, 0.2302, 0.2270**.

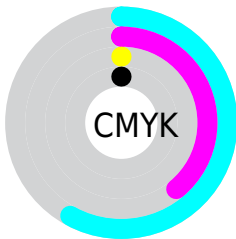
# Distribution



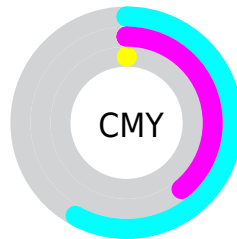
- Red (42%)
- Green (61%)
- Blue (100%)



- Red (42%)
- Yellow (56%)
- Blue (100%)



- Cyan (58%)
- Magenta (39%)
- Yellow (0%)
- Black (0%)



- Cyan (58%)
- Magenta (39%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 33.7242, 0.2126, 0.2010 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 33.7242, 0.2126, 0.2010 by changing the saturation by 10% instead.




 33.7242, 0.2126,  
0.2010


 33.7242, 0.2126,  
0.2010


318.9005, 0.2627,  
0.2627


 22.6818, 0.2006,  
0.1869


 65.5045, 0.2305,  
0.2226

 14.3587, 0.1857,  
0.1696


 87.0113, 0.2374,  
0.2309

 8.3706, 0.1668,  
0.1483


 112.7749, 0.2432,  
0.2381

 4.3330, 0.1425,  
0.1217

143.1799, 0.2482,  
0.2443

 1.8615, 0.1111,  
0.0889

178.6105, 0.2525,  
0.2498

 0.5251, 0.0719,  
0.0468

219.4512, 0.2564,

 0.0000, 0.0000,

0.2546

0.0000

266.0864, 0.2597,  
0.2589

■ 33.7242, 0.2126,  
0.2010

■ 33.7242, 0.2126,  
0.2010

■ 27.0807, 0.1963,  
0.1749

■ 41.6383, 0.2302,  
0.2270

■ 21.6289, 0.1823,  
0.1497

■ 50.8879, 0.2484,  
0.2519

■ 17.2845, 0.1712,  
0.1266

■ 61.5374, 0.2665,  
0.2752

■ 13.9423, 0.1633,  
0.1068

■ 73.6455, 0.2840,  
0.2964

■ 13.3385, 0.1619,  
0.1030

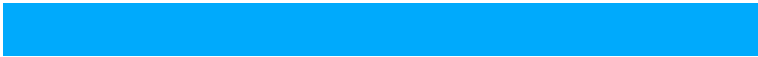
■ 87.2673, 0.3005,  
0.3155

99.9352, 0.3133,  
0.3300

# Harmonies

## Analogous

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



33.7242, 0.1754, 0.2128



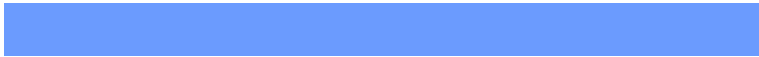
33.7242, 0.2126, 0.2010



33.7242, 0.2794, 0.2154

# Triad

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



33.7242, 0.2126, 0.2010



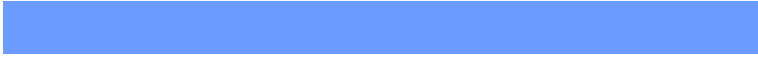
33.7242, 0.4826, 0.3648



33.7242, 0.2480, 0.4291

# Complementary

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



33.7242, 0.2126, 0.2010



66.2551, 0.4229, 0.4272

# 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.



33.7242, 0.3263, 0.4856



33.7242, 0.2126, 0.2010



33.7242, 0.4642, 0.4263

# Square

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



33.7242, 0.2126, 0.2010



33.7242, 0.4464, 0.3044



33.7242, 0.4053, 0.4764



33.7242, 0.1917, 0.3350



# Rectangle

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



33.7242, 0.2126, 0.2010



33.7242, 0.3368, 0.2376



33.7242, 0.4053, 0.4764



33.7242, 0.2726, 0.4549

# Sweetspot

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



33.7253, 0.2126, 0.2010



75.4558, 0.2855, 0.2982



78.4099, 0.2612, 0.3900



15.5935, 0.2821, 0.2941



0.0000, 0.0000, 0.0000

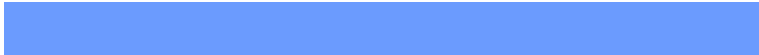


21.4041, 0.3127, 0.3290



# Same Dimension

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



33.7253, 0.2126, 0.2010



26.6432, 0.1946, 0.1719



22.5303, 0.2150, 0.1487



18.3468, 0.2979, 0.3125



7.2704, 0.1627, 0.1058



0.8973, 0.1689, 0.1281



# Inverse Universe

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



33.9473, 0.4308, 0.2810



28.6519, 0.4682, 0.2765



88.6780, 0.3783, 0.4754



18.0849, 0.3243, 0.3213



11.4619, 0.5672, 0.2898



1.1351, 0.5353, 0.2722



# Previews

## White Background



This preview shows how the Yxy color 33.7242, 0.2126, 0.2010 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 33.7242, 0.2126, 0.2010 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

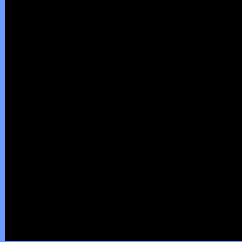
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

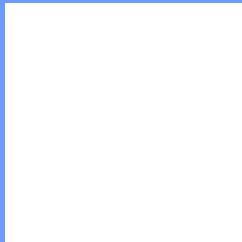
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 33.7242, 0.2126, 0.2010**

## **Background**



This preview shows how black text looks on a background with the Yxy color 33.7242, 0.2126, 0.2010.



This preview shows how white text looks on a background with the Yxy color 33.7242, 0.2126, 0.2010.

# 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

33.7242, 0.2126, 0.2010

### Protanopia

33.6623, 0.2185, 0.2019

### Deuteranopia

33.8111, 0.2087, 0.2023



## Tritanopia

33.8298, 0.2368, 0.3062

# Trichromacy



**Original Color**

33.7242, 0.2126, 0.2010

**Protanomaly**

33.7805, 0.2162, 0.2016

**Deuteranomaly**

33.6994, 0.2101, 0.2015

**Tritanomaly**

33.6376, 0.2272, 0.2628

# Monochromacy



**Original Color**

33.7242, 0.2126, 0.2010

**Achromatopsia**

31.3989, 0.3127, 0.3290

**Achromatomaly**

31.6908, 0.2671, 0.2754

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 33.7242, 0.2126, 0.2010 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(107, 155, 254)` looks like.

```
.text, #text, p{  
    color:rgb(107, 155, 254)  
}
```

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(107, 155, 254) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(107, 155, 254) }
```

## Border

The CSS property to change the border of an element to Yxy 33.7242, 0.2126, 0.2010 is called "border". The border property can be set on classes, ids or directly on the HTML element.

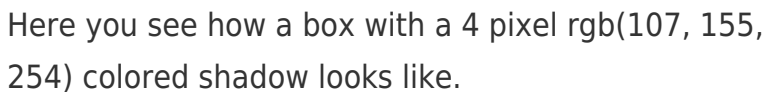
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(107, 155, 254) }
```

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

```
.border{ border-color:rgb(107, 155, 254) }
```

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



Here you see how a box with a 4 pixel `rgb(107, 155, 254)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(107, 155, 254); -webkit-box-  
shadow:4px 4px 4px 4px rgb(107, 155, 254);  
box-shadow:4px 4px 4px 4px rgb(107, 155,  
254) }
```



# Background

The CSS property to change the background color of an element to Yxy 33.7242, 0.2126, 0.2010 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(107, 155, 254) }
```

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

```
.background{ background-color: rgb(107,  
155, 254) }
```

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