

Converting Colors

$Y_{xy}(32.9961, 0.1945, 0.2009)$

Have a look what the booklet for
Yxy(32.9961, 0.1945, 0.2009)
contains.

Yxy(33.0654, 0.1946, 0.2012)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	27
<i>CSS Examples</i>	30

Color

Yxy(33.0654, 0.1946, 0.2012)

Conversions

Conversions Part 1

Format	Color
Hex	33A0FF
RGB	51, 160, 255
RGB Percent	20%, 63%, 100%
CMY	0.8003, 0.3725, 0.0000
CMYK	0.80, 0.37, 0.00, 0.00
HSL	208°, 100%, 60%
HSV	208°, 80%, 100%
XYZ	31.9807, 33.0654, 99.2948
YIQ	138.2390, -95.4590, 6.4370

Conversions

Conversions Part 2

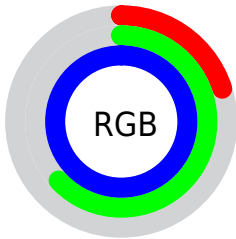
Format	Color
R_{YB}	51, 122, 255
Decimal	3383551
CIE Lab	64.21, 2.02, -55.65
CIE LCh	64, 55.685, 272.075
Yxy	33.0654, 0.1946, 0.2012
Android (android.graphics.Color)	4281573631 (0xFF33A0FF)
YUV	138.2390, 57.5632, -76.5086
Hunter-Lab	57.5025, -1.3544, -62.1296

Details

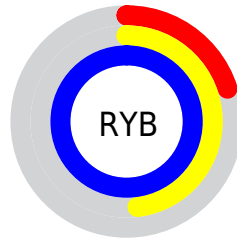
The Yxy color **33.0654, 0.1946, 0.2012** is a light color, and the websafe version is hex **0099FF**. The color can be described as light washed azure. A complement of this color would be **42.0217, 0.5077, 0.4096**, and the grayscale version is **25.3072, 0.3127, 0.3290**.

A 20% lighter version of the original color is **59.9023, 0.2379, 0.2794**, and **15.0145, 0.1817, 0.1742** is the 20% darker color. If you saturate the color by 10%, you get **28.6562, 0.1860, 0.1833**, and if you desaturate by 10%, it is **38.2318, 0.2056, 0.2196**.

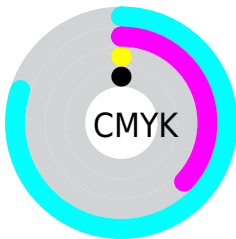
Distribution



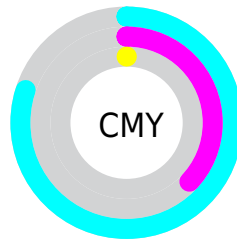
- Red (20%)
- Green (63%)
- Blue (100%)



- Red (20%)
- Yellow (48%)
- Blue (100%)



- Cyan (80%)
- Magenta (37%)
- Yellow (0%)
- Black (0%)




- Cyan (80%)
- Magenta (37%)
- Yellow (0%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 33.0654, 0.1946, 0.2012 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 33.0654, 0.1946, 0.2012 by changing the saturation by 10% instead.


 33.0654, 0.1946,
0.2012

 33.0654, 0.1946,
0.2012


315.9443, 0.2528,
0.2638

 22.1766, 0.1810,
0.1867


 64.4776, 0.2151,
0.2232


 13.9867, 0.1644,
0.1690


 85.7698, 0.2231,
0.2317

 8.1114, 0.1436,
0.1470


 111.2985, 0.2298,
0.2390

 4.1663, 0.1177,
0.1196

 141.4482, 0.2357,
0.2453

 1.7670, 0.0856,
0.0860

176.6032, 0.2408,
0.2508

 0.4665, 0.0446,
0.0422

217.1480, 0.2453,

 0.0000, 0.0000,

0.2556

0.0000

263.4669, 0.2492,
0.2599

■ 33.0654, 0.1946,
0.2012

■ 33.0654, 0.1946,
0.2012

■ 28.6562, 0.1860,
0.1833

■ 38.2318, 0.2056,
0.2196

■ 24.9162, 0.1795,
0.1663

■ 44.2148, 0.2185,
0.2380

■ 51.0690, 0.2331,
0.2559

■ 58.8424, 0.2486,
0.2730

■ 67.5783, 0.2648,
0.2889

■ 77.3171, 0.2810,
0.3036

■ 88.0962, 0.2971,
0.3170

99.9510, 0.3127,
0.3290

99.9993, 0.3127,
0.3290

Harmonies

Analogous

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



33.0654, 0.1683, 0.2240



33.0654, 0.1946, 0.2012



33.0654, 0.2511, 0.2065

Triad

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



33.0654, 0.1946, 0.2012



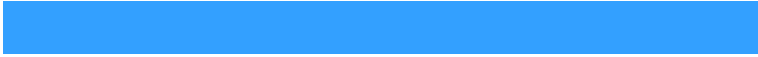
33.0654, 0.4771, 0.3420



33.0654, 0.2749, 0.4584

Complementary

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



33.0654, 0.1946, 0.2012



42.0217, 0.5077, 0.4096

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.



33.0654, 0.3566, 0.4906



33.0654, 0.1946, 0.2012



33.0654, 0.4780, 0.4043

Square

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



33.0654, 0.1946, 0.2012



33.0654, 0.4214, 0.2834



33.0654, 0.4311, 0.4616



33.0654, 0.2080, 0.3706

Rectangle

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



33.0654, 0.1946, 0.2012



33.0654, 0.3041, 0.2235



33.0654, 0.4311, 0.4616



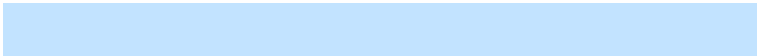
33.0654, 0.3016, 0.4770

Sweetspot

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



33.0664, 0.1946, 0.2012



73.3370, 0.2746, 0.2980



74.1905, 0.2727, 0.4810



14.9603, 0.2688, 0.2927



0.0000, 0.0000, 0.0000



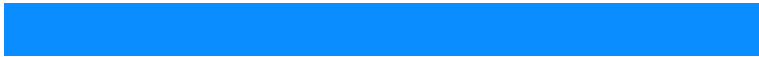
21.4041, 0.3127, 0.3290

Same Dimension

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



33.0664, 0.1946, 0.2012



26.3553, 0.1820, 0.1730



11.2713, 0.1647, 0.0880



18.9860, 0.2979, 0.3177



13.3225, 0.1803, 0.1691



1.5160, 0.1857, 0.1887

Inverse Universe

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



26.1568, 0.4406, 0.2364



23.4065, 0.4765, 0.2416



86.6716, 0.4204, 0.4896



18.1494, 0.3210, 0.3164



12.0729, 0.4818, 0.2428



1.1976, 0.4583, 0.2298

Previews

White Background



This preview shows how the Yxy color 33.0654, 0.1946, 0.2012 looks on a white background.

Color Contrast Check

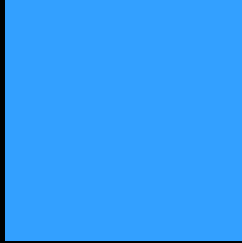
Large Text (above 18pt) WCAG AA × Fail

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 33.0654, 0.1946, 0.2012 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

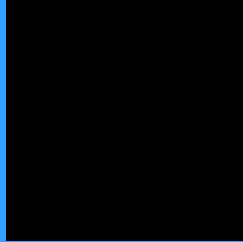
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

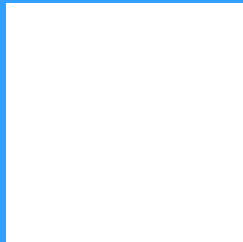
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 33.0654, 0.1946, 0.2012

Background



This preview shows how black text looks on a background with the Yxy color 33.0654, 0.1946, 0.2012.



This preview shows how white text looks on a background with the Yxy color 33.0654, 0.1946, 0.2012.

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

33.0654, 0.1946, 0.2012

Protanopia

32.7002, 0.2201, 0.2038

Deuteranopia

32.7865, 0.2044, 0.1977



Tritanopia

33.0078, 0.2186, 0.3069

Trichromacy



Original Color

33.0654, 0.1946, 0.2012

Protanomaly

32.3930, 0.2079, 0.2015

Deuteranomaly

32.8298, 0.2000, 0.1989

Tritanomaly

32.7969, 0.2078, 0.2631

Monochromacy



Original Color

33.0654, 0.1946, 0.2012

Achromatopsia

25.4152, 0.3127, 0.3290

Achromatomaly

26.9581, 0.2477, 0.2719

CSS Examples

Text

The CSS property to change the color of the text to Yxy 33.0654, 0.1946, 0.2012 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(51, 160, 255)` looks like.

```
.text, #text, p{  
    color:rgb(51, 160, 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(51, 160, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 160, 255) }
```

Border

The CSS property to change the border of an element to Yxy 33.0654, 0.1946, 0.2012 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(51, 160, 255) }
```

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

```
.border{ border-color:rgb(51, 160, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 160, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 160, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 160, 255);  
box-shadow:4px 4px 4px 4px rgb(51, 160,  
255) }
```


Background

The CSS property to change the background color of an element to Yxy 33.0654, 0.1946, 0.2012 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 160, 255) }
```

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

```
.background{ background-color: rgb(51, 160,  
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