

Converting Colors

$Y_{xy}(21.4880, 0.6381, 0.3316)$

Have a look what the booklet for
Yxy(21.4880, 0.6381, 0.3316)
contains.

Yxy(21.4993, 0.6380, 0.3316)	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(21.4993, 0.6380, 0.3316)

Conversions

Conversions Part 1

Format	Color
Hex	FF0B00
RGB	255, 11, 0
RGB Percent	100%, 4%, 0%
CMY	0.0000, 0.9572, 0.9998
CMYK	0.00, 0.96, 1.00, 0.00
HSL	3°, 100%, 50%
HSV	3°, 100%, 100%
XYZ	41.3648, 21.4993, 1.9710
YIQ	82.7020, 148.9550, 48.3070

Conversions

Conversions Part 2

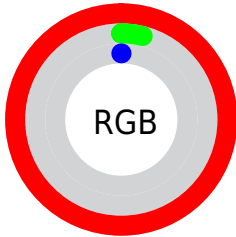
Format	Color
RYB	255, 11, 0
Decimal	16714496
CIELab	53.49, 79.38, 67.30
CIElCh	53, 104.066, 40.294
Yxy	21.4993, 0.6380, 0.3316
Android (android.graphics.Color)	4294904576 (0xFFFF0B00)
YUV	82.7020, -40.7721, 151.1053
Hunter-Lab	46.3673, 78.0988, 29.9368

Details

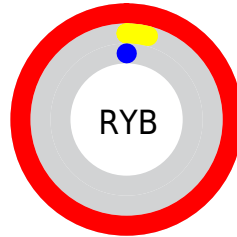
The Yxy color **21.4993, 0.6380, 0.3316** is a dark color, and the websafe version is hex **FF0000**. The color can be described as dark saturated red. A complement of this color would be **72.0036, 0.2210, 0.3154**, and the grayscale version is **8.6381, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.4994, 0.5498, 0.3607**, and **10.5648, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **21.4963, 0.6380, 0.3316**, and if you desaturate by 10%, it is **22.5539, 0.6211, 0.3333**.

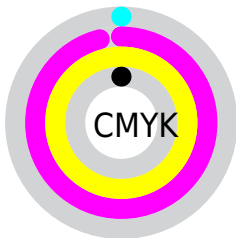
Distribution



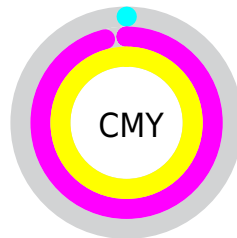
- Red (100%)
- Green (4%)
- Blue (0%)



- Red (100%)
- Yellow (4%)
- Blue (0%)



- Cyan (0%)
- Magenta (96%)
- Yellow (100%)
- Black (0%)



- Cyan (0%)
- Magenta (96%)
- Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 21.4993, 0.6380, 0.3316 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 21.4993, 0.6380, 0.3316 by changing the saturation by 10% instead.


 21.4993, 0.6380,
0.3316


 21.4993, 0.6380,
0.3316


 259.9202, 0.4731,
0.3586


 13.4895, 0.6724,
0.3150


 45.9170, 0.5823,
0.3495

 7.7664, 0.7106,
0.2894

 63.0937, 0.5597,
0.3538


 3.9459, 0.7498,
0.2502

 84.0948, 0.5401,
0.3565

 1.6433, 0.8029,
0.1971

 109.3047, 0.5230,
0.3580

 0.3865, 0.8956,
0.1044

 139.1078, 0.5081,
0.3587


 0.0000, 1.0000,
0.0000


 173.8885, 0.4950,

 0.0000, 0.0000,


0.3590


0.0000


 214.0312, 0.4834,
0.3589


 21.4993, 0.6380,
0.3316


 21.4993, 0.6380,
0.3316


 21.4963, 0.6380,
0.3316

 22.5539, 0.6211,
0.3333

 24.7040, 0.5889,
0.3349

 28.1539, 0.5455,
0.3357

 33.0653, 0.4981,
0.3357

 39.5763, 0.4527,
0.3350

■ 47.8088, 0.4128,
0.3339

■ 57.8733, 0.3794,
0.3326

■ 69.8707, 0.3522,
0.3313

■ 83.8948, 0.3303,
0.3301

Harmonies

Analogous

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



21.4993, 0.5809, 0.2530



21.4993, 0.6380, 0.3316



21.4993, 0.5699, 0.4301

Triad

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



21.4993, 0.6380, 0.3316



21.4993, 0.1729, 0.5972



21.4993, 0.1254, 0.1101

Complementary

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



21.4993, 0.6380, 0.3316



72.0036, 0.2210, 0.3154

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.



21.4993, 0.0798, 0.1221



21.4993, 0.6380, 0.3316



21.4993, 0.0919, 0.3390

Square

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



21.4993, 0.6380, 0.3316



21.4993, 0.2983, 0.6735



21.4993, 0.0683, 0.1810



21.4993, 0.2253, 0.1290

Rectangle

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



21.4993, 0.6380, 0.3316



21.4993, 0.4860, 0.5140



21.4993, 0.0683, 0.1810



21.4993, 0.1055, 0.1104

Sweetspot

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



21.4975, 0.6380, 0.3316



57.8521, 0.3795, 0.3326



27.9457, 0.3296, 0.1589



11.4256, 0.3928, 0.3332



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.



21.4975, 0.6380, 0.3316



21.4963, 0.6380, 0.3316



38.8749, 0.5336, 0.4145



18.1110, 0.3293, 0.3301



11.2857, 0.6371, 0.3323



1.1406, 0.6302, 0.3378

Inverse Universe

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



72.0036, 0.2210, 0.3154



72.0020, 0.2210, 0.3154



20.4202, 0.1732, 0.1435



20.3408, 0.2980, 0.3279



37.6810, 0.2210, 0.3156



3.7084, 0.2215, 0.3172

Previews

White Background



This preview shows how the Yxy color 21.4993, 0.6380, 0.3316 looks on a white background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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 × Fail

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

Yxy 21.4993, 0.6380, 0.3316

Background



This preview shows how black text looks on a background with the Yxy color 21.4993, 0.6380, 0.3316.



This preview shows how white text looks on a background with the Yxy color 21.4993, 0.6380, 0.3316.

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

21.4993, 0.6380, 0.3316

Protanopia

21.8301, 0.4282, 0.4721

Deuteranopia

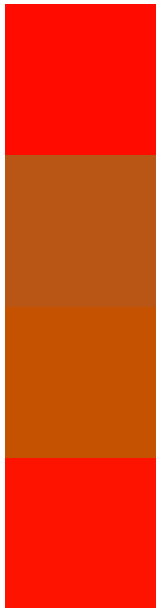
21.6004, 0.4703, 0.4648



Tritanopia

21.4954, 0.6347, 0.3343

Trichromacy



Original Color

21.4993, 0.6380, 0.3316

Protanomaly

17.0240, 0.5426, 0.3936

Deuteranomaly

17.7703, 0.5651, 0.3895

Tritanomaly

21.5366, 0.6360, 0.3332

Monochromacy



Original Color

21.4993, 0.6380, 0.3316

Achromatopsia

8.6500, 0.3127, 0.3290

Achromatomaly

9.2943, 0.5043, 0.3358

CSS Examples

Text

The CSS property to change the color of the text to Yxy 21.4993, 0.6380, 0.3316 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(255, 11, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 11, 0)  
}
```

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(255, 11, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 11, 0) }
```

Border

The CSS property to change the border of an element to Yxy 21.4993, 0.6380, 0.3316 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(255, 11, 0) }
```

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

```
.border{ border-color:rgb(255, 11, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 11, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 11, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 11, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 11, 0)  
}
```


Background

The CSS property to change the background color of an element to Yxy 21.4993, 0.6380, 0.3316 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 11, 0) }
```

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

```
.background{ background-color: rgb(255, 11,  
0) }
```

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