

Converting Colors

$Y_{xy}(21.6093, 0.6370, 0.3324)$

Have a look what the booklet for
Yxy(21.6093, 0.6370, 0.3324)
contains.

Yxy(21.6016, 0.6371, 0.3323)	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(21.6016, 0.6371, 0.3323)

Conversions

Conversions Part 1

Format	Color
Hex	FF0F00
RGB	255, 15, 0
RGB Percent	100%, 6%, 0%
CMY	0.0000, 0.9414, 0.9997
CMYK	0.00, 0.94, 1.00, 0.00
HSL	3°, 100%, 50%
HSV	3°, 100%, 100%
XYZ	41.4155, 21.6016, 1.9892
YIQ	85.0500, 147.8550, 46.2150

Conversions

Conversions Part 2

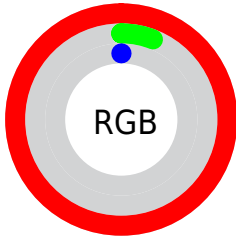
Format	Color
RYB	255, 16, 0
Decimal	16715520
CIELab	53.60, 79.06, 67.33
CIElCh	54, 103.841, 40.420
Yxy	21.6016, 0.6371, 0.3323
Android (android.graphics.Color)	4294905600 (0xFFFF0F00)
YUV	85.0500, -41.9296, 149.0462
Hunter-Lab	46.4775, 77.7234, 29.9967

Details

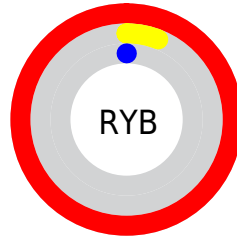
The Yxy color **21.6016, 0.6371, 0.3323** is a dark color, and the websafe version is hex **FF0000**. The color can be described as dark saturated red. A complement of this color would be **69.6284, 0.2196, 0.3104**, and the grayscale version is **9.1558, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.6901, 0.5488, 0.3616**, and **10.5648, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **21.5976, 0.6371, 0.3323**, and if you desaturate by 10%, it is **22.7808, 0.6193, 0.3347**.

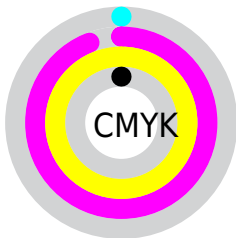
Distribution



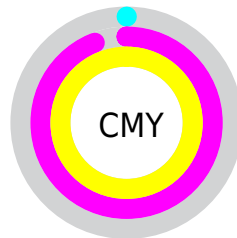
- Red (100%)
- Green (6%)
- Blue (0%)



- Red (100%)
- Yellow (6%)
- Blue (0%)



- Cyan (0%)
- Magenta (94%)
- Yellow (100%)
- Black (0%)





- Cyan (0%)
- Magenta (94%)
- Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 21.6016, 0.6371, 0.3323 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 21.6016, 0.6371, 0.3323 by changing the saturation by 10% instead.


 21.6016, 0.6371,
0.3323


 21.6016, 0.6371,
0.3323


 260.4586, 0.4727,
0.3589


 13.5645, 0.6714,
0.3158


 46.0866, 0.5816,
0.3500


 7.8184, 0.7095,
0.2905


 63.3033, 0.5591,
0.3543


 3.9789, 0.7486,
0.2514

 84.3486, 0.5395,
0.3568

 1.6618, 0.8015,
0.1985

 109.6070, 0.5225,
0.3583

 0.3987, 0.8930,
0.1070

 139.4628, 0.5076,
0.3590

 0.0000, 1.0000,
0.0000


 174.3004, 0.4945,


 0.0000, 0.0000,


0.3593

0.0000


 214.5042, 0.4830,
0.3592

 21.6016, 0.6371,
0.3323

 21.6016, 0.6371,
0.3323


 21.5976, 0.6371,
0.3323

 22.7808, 0.6193,
0.3347

 25.0514, 0.5867,
0.3370

 28.6037, 0.5433,
0.3380

 33.5894, 0.4963,
0.3379

 40.1390, 0.4515,
0.3370

■ 48.3681, 0.4121,
0.3355

■ 58.3818, 0.3790,
0.3339

■ 70.2762, 0.3520,
0.3322

■ 84.1407, 0.3302,
0.3305

Harmonies

Analogous

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



21.6016, 0.5806, 0.2536



21.6016, 0.6371, 0.3323



21.6016, 0.5692, 0.4308

Triad

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



21.6016, 0.6371, 0.3323



21.6016, 0.1731, 0.5950



21.6016, 0.1261, 0.1105

Complementary

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



21.6016, 0.6371, 0.3323



69.6284, 0.2196, 0.3104

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.



21.6016, 0.0804, 0.1224



21.6016, 0.6371, 0.3323



21.6016, 0.0922, 0.3382

Square

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



21.6016, 0.6371, 0.3323



21.6016, 0.2983, 0.6726



21.6016, 0.0688, 0.1811



21.6016, 0.2262, 0.1296

Rectangle

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



21.6016, 0.6371, 0.3323



21.6016, 0.4854, 0.5146



21.6016, 0.0688, 0.1811



21.6016, 0.1061, 0.1108

Sweetspot

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



21.6002, 0.6371, 0.3323



58.3437, 0.3791, 0.3339



27.6880, 0.3341, 0.1614



11.5369, 0.3923, 0.3346



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.



21.6002, 0.6371, 0.3323



21.5976, 0.6371, 0.3323



40.1012, 0.5286, 0.4184



18.1567, 0.3293, 0.3304



11.3514, 0.6360, 0.3332



1.1623, 0.6267, 0.3406

Inverse Universe

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



69.6284, 0.2196, 0.3104



69.6248, 0.2196, 0.3104



19.4362, 0.1717, 0.1382



20.2894, 0.2980, 0.3276



36.4586, 0.2196, 0.3107



3.6028, 0.2203, 0.3129

Previews

White Background



This preview shows how the Yxy color 21.6016, 0.6371, 0.3323 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 21.6016, 0.6371, 0.3323

Background



This preview shows how black text looks on a background with the Yxy color 21.6016, 0.6371, 0.3323.



This preview shows how white text looks on a background with the Yxy color 21.6016, 0.6371, 0.3323.

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

21.6016, 0.6371, 0.3323

Protanopia

21.8301, 0.4282, 0.4721

Deuteranopia

21.9524, 0.4700, 0.4650



Tritanopia

21.6836, 0.6347, 0.3342

Trichromacy



Original Color

21.6016, 0.6371, 0.3323

Protanomaly

17.3479, 0.5396, 0.3961

Deuteranomaly

18.0764, 0.5622, 0.3918

Tritanomaly

21.5711, 0.6357, 0.3335

Monochromacy



Original Color

21.6016, 0.6371, 0.3323

Achromatopsia

9.0842, 0.3127, 0.3290

Achromatomaly

9.7011, 0.5001, 0.3389

CSS Examples

Text

The CSS property to change the color of the text to Yxy 21.6016, 0.6371, 0.3323 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, 15, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 15, 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, 15, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 15, 0) }
```

Border

The CSS property to change the border of an element to Yxy 21.6016, 0.6371, 0.3323 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, 15, 0) }
```

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

```
.border{ border-color:rgb(255, 15, 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, 15, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 15, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 15, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 15, 0)  
}
```


Background

The CSS property to change the background color of an element to Yxy 21.6016, 0.6371, 0.3323 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 15, 0) }
```

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

```
.background{ background-color: rgb(255, 15,  
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