

Converting Colors

$Y_{xy}(23.7871, 0.6192, 0.3465)$

Have a look what the booklet for
Yxy(23.7871, 0.6192, 0.3465)
contains.

Yxy(23.8062, 0.6191, 0.3467)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(23.8062, 0.6191, 0.3467)

Conversions

Conversions Part 1

Format	Color
Hex	FF3500
RGB	255, 53, 0
RGB Percent	100%, 21%, 0%
CMY	0.0000, 0.7920, 1.0000
CMYK	0.00, 0.79, 1.00, 0.00
HSL	12°, 100%, 50%
HSV	12°, 100%, 100%
XYZ	42.5106, 23.8062, 2.3483
YIQ	107.3560, 137.4050, 26.3410

Conversions

Conversions Part 2

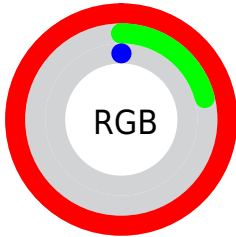
Format	Color
R _Y B	255, 67, 0
Decimal	16725248
CIE Lab	55.89, 72.49, 68.28
CIE LCh	56, 99.586, 43.288
Yxy	23.8062, 0.6191, 0.3467
Android (android.graphics.Color)	4294915328 (0xFFFF3500)
YUV	107.3560, -52.9265, 129.4838
Hunter-Lab	48.7916, 70.1361, 31.3005

Details

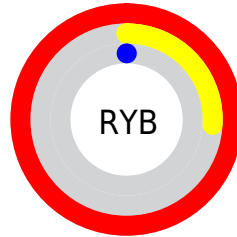
The Yxy color **23.8062, 0.6191, 0.3467** is a dark color, and the websafe version is hex **FF3300**. The color can be described as dark saturated red. A complement of this color would be **49.4409, 0.2054, 0.2593**, and the grayscale version is **14.9338, 0.3127, 0.3290**.

A 20% lighter version of the original color is **34.3304, 0.5301, 0.3755**, and **10.6914, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **23.8081, 0.6190, 0.3467**, and if you desaturate by 10%, it is **26.1266, 0.5951, 0.3549**.

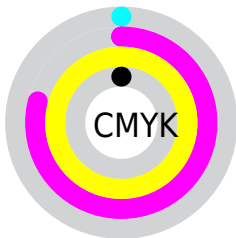
Distribution



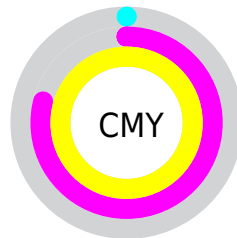
- Red (100%)
- Green (21%)
- Blue (0%)



- Red (100%)
- Yellow (26%)
- Blue (0%)



- Cyan (0%)
- Magenta (79%)
- Yellow (100%)
- Black (0%)




- Cyan (0%)
- Magenta (79%)
- Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 23.8062, 0.6191, 0.3467 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 23.8062, 0.6191, 0.3467 by changing the saturation by 10% instead.


 23.8062, 0.6191,
0.3467


 23.8062, 0.6191,
0.3467


271.8392, 0.4653,
0.3639


 15.1899, 0.6506,
0.3328


 49.7138, 0.5672,
0.3605

 8.9528, 0.6881,
0.3119


 67.7738, 0.5462,
0.3634


 4.7104, 0.7235,
0.2765

 89.7506, 0.5279,
0.3649

 2.0784, 0.7720,
0.2280

 116.0285, 0.5120,
0.3655

 0.6524, 0.8441,
0.1559

 146.9920, 0.4981,
0.3656


 0.0000, 1.0000,
0.0000

 183.0253, 0.4858,

 0.0000, 0.0000,


0.3652

0.0000


 224.5129, 0.4749,
0.3647

 23.8062, 0.6191,
0.3467


 23.8062, 0.6191,
0.3467


 23.8081, 0.6190,
0.3467

 26.1266, 0.5951,
0.3549

 29.4016, 0.5612,
0.3604

 33.7372, 0.5210,
0.3622

 39.2180, 0.4794,
0.3606

 45.9199, 0.4402,
0.3568

■ 53.9118, 0.4054,
0.3516

■ 63.2575, 0.3756,
0.3458

■ 74.0164, 0.3506,
0.3399

■ 86.2443, 0.3298,
0.3343

Harmonies

Analogous

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



23.8062, 0.5749, 0.2673



23.8062, 0.6191, 0.3467



23.8062, 0.5527, 0.4460

Triad

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



23.8062, 0.6191, 0.3467



23.8062, 0.1741, 0.5524



23.8062, 0.1412, 0.1199

Complementary

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



23.8062, 0.6191, 0.3467



49.4409, 0.2054, 0.2593

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.



23.8062, 0.0918, 0.1291



23.8062, 0.6191, 0.3467



23.8062, 0.0989, 0.3206

Square

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



23.8062, 0.6191, 0.3467



23.8062, 0.2947, 0.6543



23.8062, 0.0779, 0.1822



23.8062, 0.2446, 0.1416

Rectangle

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



23.8062, 0.6191, 0.3467



23.8062, 0.4734, 0.5266



23.8062, 0.0779, 0.1822



23.8062, 0.1199, 0.1194

Sweetspot

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



23.8081, 0.6190, 0.3467



63.2613, 0.3756, 0.3458



25.6181, 0.3803, 0.1869



12.6609, 0.3875, 0.3483



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.



23.8081, 0.6190, 0.3467



23.8095, 0.6190, 0.3467



53.2970, 0.4860, 0.4523



18.5990, 0.3289, 0.3340



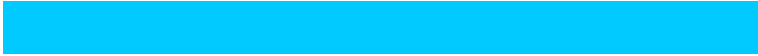
12.6114, 0.6165, 0.3487



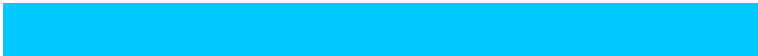
1.3761, 0.5958, 0.3651

Inverse Universe

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



49.4409, 0.2054, 0.2593



49.4439, 0.2054, 0.2593



12.4573, 0.1602, 0.0965



19.8021, 0.2980, 0.3239



26.0582, 0.2057, 0.2605



2.6907, 0.2081, 0.2692

Previews

White Background



This preview shows how the Yxy color 23.8062, 0.6191, 0.3467 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



This preview shows how the Yxy color 23.8062, 0.6191, 0.3467 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 × Fail

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

Yxy 23.8062, 0.6191, 0.3467

Background



This preview shows how black text looks on a background with the Yxy color 23.8062, 0.6191, 0.3467.



This preview shows how white text looks on a background with the Yxy color 23.8062, 0.6191, 0.3467.

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

23.8062, 0.6191, 0.3467

Protanopia

24.0010, 0.4299, 0.4764

Deuteranopia

23.8734, 0.4695, 0.4654



Tritanopia

23.8579, 0.5954, 0.3304

Trichromacy



Original Color

23.8062, 0.6191, 0.3467

Protanomaly

20.9690, 0.5189, 0.4160

Deuteranomaly

21.5867, 0.5400, 0.4094

Tritanomaly

23.8203, 0.6081, 0.3390

Monochromacy



Original Color

23.8062, 0.6191, 0.3467

Achromatopsia

14.7027, 0.3127, 0.3290

Achromatomaly

14.8108, 0.4639, 0.3588

CSS Examples

Text

The CSS property to change the color of the text to Yxy 23.8062, 0.6191, 0.3467 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, 53, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 53, 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, 53, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 53, 0) }
```

Border

The CSS property to change the border of an element to Yxy 23.8062, 0.6191, 0.3467 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, 53, 0) }
```

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

```
.border{ border-color:rgb(255, 53, 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, 53, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 53, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 53, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 53, 0)  
}
```


Background

The CSS property to change the background color of an element to Yxy 23.8062, 0.6191, 0.3467 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 53, 0) }
```

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

```
.background{ background-color: rgb(255, 53,  
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