

Converting Colors

$Y_{xy}(23.5485, 0.6210, 0.3451)$

Have a look what the booklet for
Yxy(23.5485, 0.6210, 0.3451)
contains.

Yxy(23.5412, 0.6211, 0.3450)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(23.5412, 0.6211, 0.3450)

Conversions

Conversions Part 1

Format	Color
Hex	FF3200
RGB	255, 50, 0
RGB Percent	100%, 20%, 0%
CMY	0.0000, 0.8039, 0.9996
CMYK	0.00, 0.80, 1.00, 0.00
HSL	12°, 100%, 50%
HSV	12°, 100%, 100%
XYZ	42.3810, 23.5412, 2.3132
YIQ	105.5950, 138.2300, 27.9100

Conversions

Conversions Part 2

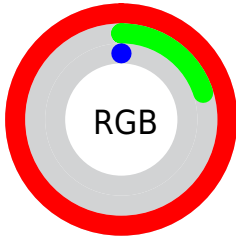
Format	Color
R_{YB}	255, 62, 0
Decimal	16724480
CIE _{Lab}	55.63, 73.26, 68.10
CIE _{LCh}	56, 100.020, 42.911
Yxy	23.5412, 0.6211, 0.3450
Android (android.graphics.Color)	4294914560 (0xFFFF3200)
YUV	105.5950, -52.0583, 131.0282
Hunter-Lab	48.5193, 71.0088, 31.1368

Details

The Yxy color **23.5412, 0.6211, 0.3450** 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 **50.9257, 0.2066, 0.2636**, and the grayscale version is **14.4190, 0.3127, 0.3290**.

A 20% lighter version of the original color is **33.8584, 0.5329, 0.3742**, and **10.6914, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **23.5351, 0.6212, 0.3450**, and if you desaturate by 10%, it is **25.7788, 0.5974, 0.3529**.

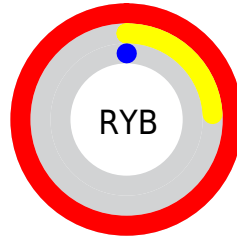
Distribution



Red (100%)

Green (20%)

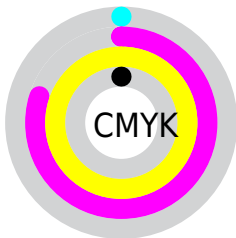
Blue (0%)



Red (100%)

Yellow (24%)

Blue (0%)

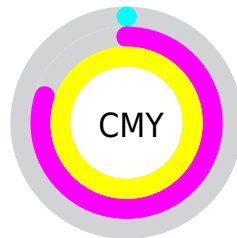


Cyan (0%)

Magenta (80%)

Yellow (100%)

Black (0%)



Cyan (0%)


Magenta (80%)

Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 23.5412, 0.6211, 0.3450 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 23.5412, 0.6211, 0.3450 by changing the saturation by 10% instead.


 23.5412, 0.6211,
0.3450


 23.5412, 0.6211,
0.3450


270.4927, 0.4661,
0.3633


 14.9936, 0.6529,
0.3308


 49.2805, 0.5688,
0.3592

 8.8149, 0.6906,
0.3094


 67.2409, 0.5476,
0.3623


 4.6207, 0.7264,
0.2736

 89.1079, 0.5292,
0.3639

 2.0265, 0.7755,
0.2245

 115.2656, 0.5131,
0.3646

 0.6228, 0.8492,
0.1508

 146.0985, 0.4991,
0.3648

 0.0000, 1.0000,
0.0000


 181.9911, 0.4867,


 0.0000, 0.0000,


0.3645

0.0000


 223.3277, 0.4758,
0.3640

 23.5412, 0.6211,
0.3450

 23.5412, 0.6211,
0.3450

 23.5351, 0.6212,
0.3450

 25.7788, 0.5974,
0.3529

 28.9871, 0.5634,
0.3583

 33.2766, 0.5228,
0.3601

 38.7357, 0.4807,
0.3587

 45.4437, 0.4410,
0.3552

■ 53.4725, 0.4058,
0.3503

■ 62.8885, 0.3757,
0.3448

■ 73.7537, 0.3506,
0.3393

■ 86.1261, 0.3298,
0.3340

Harmonies

Analogous

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



23.5412, 0.5753, 0.2657



23.5412, 0.6211, 0.3450



23.5412, 0.5551, 0.4445

Triad

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



23.5412, 0.6211, 0.3450



23.5412, 0.1743, 0.5573



23.5412, 0.1394, 0.1189

Complementary

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



23.5412, 0.6211, 0.3450



50.9257, 0.2066, 0.2636

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.



23.5412, 0.0904, 0.1285



23.5412, 0.6211, 0.3450



23.5412, 0.0983, 0.3228

Square

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



23.5412, 0.6211, 0.3450



23.5412, 0.2954, 0.6565



23.5412, 0.0768, 0.1822



23.5412, 0.2424, 0.1402

Rectangle

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



23.5412, 0.6211, 0.3450



23.5412, 0.4749, 0.5251



23.5412, 0.0768, 0.1822



23.5412, 0.1182, 0.1184

Sweetspot

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



23.5427, 0.6211, 0.3450



62.8467, 0.3759, 0.3448



25.8294, 0.3747, 0.1838



12.5655, 0.3879, 0.3472



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.



23.5427, 0.6211, 0.3450



23.5353, 0.6212, 0.3450



51.6416, 0.4904, 0.4488



18.5627, 0.3290, 0.3337



12.4600, 0.6188, 0.3469



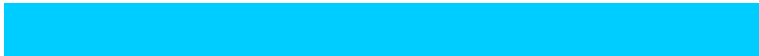
1.3564, 0.5984, 0.3631

Inverse Universe

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



50.9257, 0.2066, 0.2636



50.9155, 0.2066, 0.2636



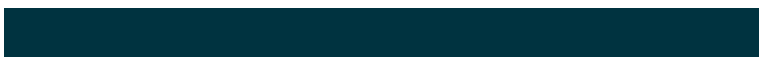
13.0792, 0.1613, 0.1005



19.8414, 0.2980, 0.3242



26.8183, 0.2069, 0.2648



2.7584, 0.2092, 0.2729

Previews

White Background



This preview shows how the Yxy color 23.5412, 0.6211, 0.3450 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 23.5412, 0.6211, 0.3450 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 23.5412, 0.6211, 0.3450

Background



This preview shows how black text looks on a background with the Yxy color 23.5412, 0.6211, 0.3450.



This preview shows how white text looks on a background with the Yxy color 23.5412, 0.6211, 0.3450.

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

23.5412, 0.6211, 0.3450

Protanopia

23.6332, 0.4294, 0.4754

Deuteranopia

23.5036, 0.4698, 0.4652



Tritanopia

23.5791, 0.5998, 0.3304

Trichromacy



Original Color

23.5412, 0.6211, 0.3450

Protanomaly

20.4424, 0.5205, 0.4137

Deuteranomaly

21.2030, 0.5430, 0.4071

Tritanomaly

23.5504, 0.6112, 0.3381

Monochromacy



Original Color

23.5412, 0.6211, 0.3450

Achromatopsia

14.4128, 0.3127, 0.3290

Achromatomaly

14.5344, 0.4652, 0.3589

CSS Examples

Text

The CSS property to change the color of the text to Yxy 23.5412, 0.6211, 0.3450 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, 50, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 50, 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, 50, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 50, 0) }
```

Border

The CSS property to change the border of an element to Yxy 23.5412, 0.6211, 0.3450 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, 50, 0) }
```

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

```
.border{ border-color:rgb(255, 50, 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, 50, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 50, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 50, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 50, 0)  
}
```


Background

The CSS property to change the background color of an element to Yxy 23.5412, 0.6211, 0.3450 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 50, 0) }
```

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

```
.background{ background-color: rgb(255, 50,  
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