

# Converting Colors

$Y_{xy}(18.6333, 0.6014, 0.3533)$

Have a look what the booklet for  
Yxy(18.6333, 0.6014, 0.3533)  
contains.

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**Color**

**Yxy(18.6920, 0.6012, 0.3537)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DE3B0F
RGB	222, 59, 15
RGB Percent	87%, 23%, 6%
CMY	0.1295, 0.7685, 0.9414
CMYK	0.00, 0.73, 0.93, 0.13
HSL	13°, 87%, 46%
HSV	13°, 93%, 87%
XYZ	31.7716, 18.6920, 2.3834
YIQ	102.7210, 111.2720, 20.8720

# Conversions

## Conversions Part 2

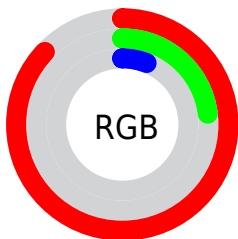
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	222, 71, 15
Decimal	14564111
CIE <sub>Lab</sub>	50.32, 61.12, 58.41
CIE <sub>LCh</sub>	50, 84.542, 43.698
Yxy	18.6920, 0.6012, 0.3537
Android (android.graphics.Color)	4292754191 (0xFFDE3B0F)
YUV	102.7210, -43.2465, 104.6077
Hunter-Lab	43.2342, 55.5148, 26.9955

# Details

The Yxy color **18.6920, 0.6012, 0.3537** is a dark color, and the websafe version is hex **CC3300**. The color can be described as dark washed red. A complement of this color would be **37.1793, 0.2074, 0.2633**, and the grayscale version is **13.5825, 0.3127, 0.3290**.

A 20% lighter version of the original color is **34.3878, 0.5262, 0.3722**, and **7.1681, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **17.5818, 0.6170, 0.3483**, and if you desaturate by 10%, it is **20.9007, 0.5700, 0.3602**.

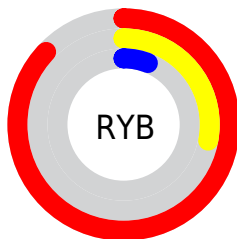
# Distribution



Red (87%)

Green (23%)

Blue (6%)



Red (87%)

Yellow (28%)

Blue (6%)

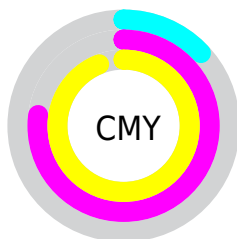


Cyan (0%)

Magenta (73%)

Yellow (93%)

Black (13%)



Cyan (13%)

Magenta (77%)


Yellow (94%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 18.6920, 0.6012, 0.3537 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 18.6920, 0.6012, 0.3537 by changing the saturation by 10% instead.





 18.6920, 0.6012,  
0.3537


 18.6920, 0.6012,  
0.3537


244.7431, 0.4474,  
0.3628


 11.4479, 0.6358,  
0.3410


 41.2130, 0.5466,  
0.3644

 6.3690, 0.6793,  
0.3207


 57.2587, 0.5253,  
0.3661


 3.0707, 0.7187,  
0.2813

 77.0071, 0.5072,  
0.3665

 1.1688, 0.7759,  
0.2241

 100.8426, 0.4917,  
0.3663

 0.0360, 0.9796,  
0.0204

 129.1495, 0.4783,  
0.3657


 0.0000, 1.0000,  
0.0000


 162.3123, 0.4666,


 0.0000, 0.0000,


0.3648


0.0000


 200.7154, 0.4564,  
0.3638


 18.6920, 0.6012,  
0.3537


 18.6920, 0.6012,  
0.3537


 17.5818, 0.6170,  
0.3483

 20.9007, 0.5700,  
0.3602

 23.8482, 0.5314,  
0.3629

 27.5970, 0.4902,  
0.3621

 32.2017, 0.4506,  
0.3587

 37.7119, 0.4148,  
0.3538

■ 44.1734, 0.3839,  
0.3480

■ 51.6286, 0.3577,  
0.3420

■ 60.1176, 0.3360,  
0.3362

■ 69.6780, 0.3179,  
0.3307

# Harmonies

## Analogous

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



18.6920, 0.5572, 0.2748



18.6920, 0.6012, 0.3537



18.6920, 0.5418, 0.4488

# Triad

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



18.6920, 0.6012, 0.3537



18.6920, 0.1846, 0.5288



18.6920, 0.1515, 0.1301

# Complementary

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



18.6920, 0.6012, 0.3537



37.1793, 0.2074, 0.2633

# 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.



18.6920, 0.1022, 0.1394



18.6920, 0.6012, 0.3537



18.6920, 0.1106, 0.3215

# Square

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



18.6920, 0.6012, 0.3537



18.6920, 0.3014, 0.6295



18.6920, 0.0885, 0.1917



18.6920, 0.2517, 0.1516



# Rectangle

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



18.6920, 0.6012, 0.3537



18.6920, 0.4707, 0.5246



18.6920, 0.0885, 0.1917



18.6920, 0.1303, 0.1295

# Sweetspot

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



18.6931, 0.6012, 0.3537



65.4594, 0.3701, 0.3450



19.1871, 0.3749, 0.1864



13.0884, 0.3819, 0.3476



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.



18.6931, 0.6012, 0.3537



23.9254, 0.6181, 0.3474



40.6612, 0.4779, 0.4545



14.1711, 0.3287, 0.3341



10.5762, 0.6147, 0.3501



0.8633, 0.5852, 0.3736



# Inverse Universe

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



37.1793, 0.2074, 0.2633



48.8581, 0.2049, 0.2575



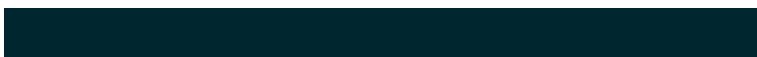
10.6909, 0.1653, 0.1102



15.0510, 0.2982, 0.3239



21.4504, 0.2054, 0.2593



1.6120, 0.2087, 0.2712



# Previews

## White Background



This preview shows how the Yxy color 18.6920, 0.6012, 0.3537 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 18.6920, 0.6012, 0.3537 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

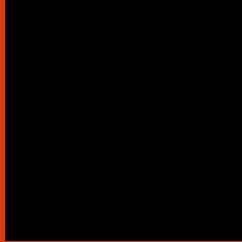
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 18.6920, 0.6012, 0.3537**

## Background



This preview shows how black text looks on a background with the Yxy color 18.6920, 0.6012, 0.3537.



This preview shows how white text looks on a background with the Yxy color 18.6920, 0.6012, 0.3537.

# 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

18.6920, 0.6012, 0.3537

### Protanopia

18.9246, 0.4264, 0.4725

### Deuteranopia

18.7100, 0.4708, 0.4644



## Tritanopia

18.7158, 0.5706, 0.3282

# Trichromacy



## Original Color

18.6920, 0.6012, 0.3537

## Protanomaly

17.0210, 0.5041, 0.4190

## Deuteranomaly

17.3635, 0.5295, 0.4149

## Tritanomaly

18.6835, 0.5861, 0.3394

# Monochromacy



## Original Color

18.6920, 0.6012, 0.3537

## Achromatopsia

13.5633, 0.3127, 0.3290

## Achromatomaly

13.3823, 0.4378, 0.3572

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 18.6920, 0.6012, 0.3537 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(222, 59, 15)` looks like.

```
.text, #text, p{  
  color:rgb(222, 59, 15)  
}
```

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(222, 59, 15) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(222, 59, 15) }
```

## Border

The CSS property to change the border of an element to Yxy 18.6920, 0.6012, 0.3537 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(222, 59, 15) }
```

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

```
.border{ border-color:rgb(222, 59, 15) }
```

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

Here you see how a box with a 4 pixel rgb(222, 59, 15) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(222, 59, 15); -webkit-box-  
shadow:4px 4px 4px 4px rgb(222, 59, 15);  
box-shadow:4px 4px 4px 4px rgb(222, 59,  
15) }
```



# Background

The CSS property to change the background color of an element to Yxy 18.6920, 0.6012, 0.3537 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(222, 59, 15) }
```

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

```
.background{ background-color: rgb(222, 59,  
15) }
```

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](#).

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