

# Converting Colors

$Y_{xy}(30.1164, 0.5529, 0.3992)$

Have a look what the booklet for  
Yxy(30.1164, 0.5529, 0.3992)  
contains.

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# **Color**

**Yxy(30.1136, 0.5530, 0.3991)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F07000
RGB	240, 112, 0
RGB Percent	94%, 44%, 0%
CMY	0.0589, 0.5607, 0.9998
CMYK	0.00, 0.53, 1.00, 0.06
HSL	28°, 100%, 47%
HSV	28°, 100%, 94%
XYZ	41.7259, 30.1136, 3.6142
YIQ	137.5040, 112.2400, -7.6960

# Conversions

## Conversions Part 2

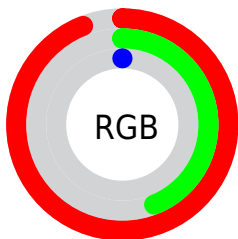
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	240, 210, 0
Decimal	15757312
CIE <sub>Lab</sub>	61.75, 44.87, 69.78
CIE <sub>LCh</sub>	62, 82.960, 57.258
Yxy	30.1136, 0.5530, 0.3991
Android (android.graphics.Color)	4293947392 (0xFFFF07000)
YUV	137.5040, -67.7895, 89.8890
Hunter-Lab	54.8759, 39.6932, 34.5081

# Details

The Yxy color **30.1136, 0.5530, 0.3991** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark saturated orange. A complement of this color would be **21.7305, 0.1796, 0.1664**, and the grayscale version is **25.4518, 0.3127, 0.3290**.

A 20% lighter version of the original color is **48.9621, 0.4780, 0.4183**, and **12.4618, 0.5852, 0.3736** is the 20% darker color. If you saturate the color by 10%, you get **30.1105, 0.5530, 0.3991**, and if you desaturate by 10%, it is **33.2099, 0.5319, 0.4070**.

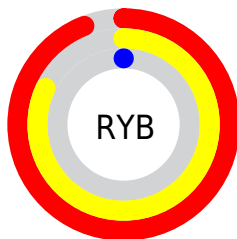
# Distribution



Red (94%)

Green (44%)

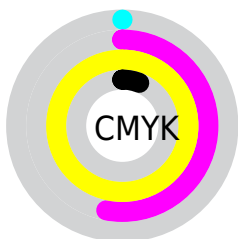
Blue (0%)



Red (94%)

Yellow (82%)

Blue (0%)

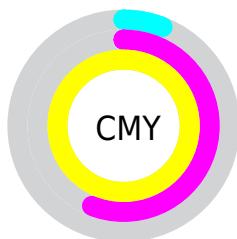


Cyan (0%)

Magenta (53%)

Yellow (100%)

Black (6%)



Cyan (6%)

Magenta (56%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 30.1136, 0.5530, 0.3991 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 30.1136, 0.5530, 0.3991 by changing the saturation by 10% instead.




 30.1136, 0.5530,  
0.3991


 30.1136, 0.5530,  
0.3991


302.4336, 0.4355,  
0.3825


 19.9248, 0.5767,  
0.3952

 59.8418, 0.5137,  
0.3989


 12.3404, 0.6068,  
0.3883


 80.1500, 0.4977,  
0.3971


 6.9760, 0.6320,  
0.3680


 104.6001, 0.4838,  
0.3947

 3.4471, 0.6637,  
0.3363

 133.5766, 0.4716,  
0.3922

 1.3693, 0.7119,  
0.2881

 167.4638, 0.4609,  
0.3897


 0.1940, 0.8752,  
0.1248


 206.6461, 0.4514,


 0.0000, 1.0000,


0.3872


0.0000


 251.5079, 0.4430,  
0.3848


 0.0000, 0.0000,  
0.0000

 30.1136, 0.5530,  
0.3991


 30.1136, 0.5530,  
0.3991


 30.1105, 0.5530,  
0.3991

 33.2099, 0.5319,  
0.4070

 36.8035, 0.5066,  
0.4098

 40.9364, 0.4783,  
0.4073

 45.6382, 0.4489,  
0.4003

 50.9351, 0.4203,  
0.3903

■ 56.8513, 0.3936,  
0.3784

■ 63.4092, 0.3693,  
0.3658

■ 70.6300, 0.3479,  
0.3530

■ 78.5336, 0.3290,  
0.3407

# Harmonies

## Analogous

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



30.1136, 0.5521, 0.3198



30.1136, 0.5530, 0.3991



30.1136, 0.4814, 0.4889

# Triad

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



30.1136, 0.5530, 0.3991



30.1136, 0.1689, 0.4166



30.1136, 0.2060, 0.1570

# Complementary

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



30.1136, 0.5530, 0.3991



21.7305, 0.1796, 0.1664

# 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.



30.1136, 0.1404, 0.1531



30.1136, 0.5530, 0.3991



30.1136, 0.1202, 0.2665

# Square

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



30.1136, 0.5530, 0.3991



30.1136, 0.2632, 0.5579



30.1136, 0.1134, 0.1836



30.1136, 0.3184, 0.1899



# Rectangle

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



30.1136, 0.5530, 0.3991



30.1136, 0.4130, 0.5463



30.1136, 0.1134, 0.1836



30.1136, 0.1792, 0.1524

# Sweetspot

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



30.1153, 0.5530, 0.3991



72.6897, 0.3696, 0.3659



20.0823, 0.4850, 0.2446



14.8583, 0.3795, 0.3713



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.



30.1153, 0.5530, 0.3991



34.4549, 0.5535, 0.3987



76.2286, 0.4253, 0.5005



16.9750, 0.3282, 0.3401



16.7462, 0.5504, 0.4012



1.5905, 0.5287, 0.4184



# Inverse Universe

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



21.7305, 0.1796, 0.1664



24.8269, 0.1794, 0.1659



6.4651, 0.1504, 0.0615



16.6247, 0.2980, 0.3177



12.1636, 0.1803, 0.1691



1.2109, 0.1866, 0.1917



# Previews

## White Background



This preview shows how the Yxy color 30.1136, 0.5530, 0.3991 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

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 30.1136, 0.5530, 0.3991 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 ✓ Pass

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

**Yxy 30.1136, 0.5530, 0.3991**

## **Background**



This preview shows how black text looks on a background with the Yxy color 30.1136, 0.5530, 0.3991.



This preview shows how white text looks on a background with the Yxy color 30.1136, 0.5530, 0.3991.

# 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

30.1136, 0.5530, 0.3991

### Protanopia

30.3056, 0.4359, 0.4819

### Deuteranopia

30.1648, 0.4715, 0.4639



## Tritanopia

30.1030, 0.4796, 0.3224

# Trichromacy



## Original Color

30.1136, 0.5530, 0.3991

## Protanomaly

29.2421, 0.4826, 0.4496

## Deuteranomaly

29.6425, 0.5042, 0.4379

## Tritanomaly

29.8476, 0.5225, 0.3626

# Monochromacy



## Original Color

30.1136, 0.5530, 0.3991

## Achromatopsia

25.4152, 0.3127, 0.3290

## Achromatomaly

25.5191, 0.4165, 0.3894

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 30.1136, 0.5530, 0.3991 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(240, 112, 0)` looks like.

```
.text, #text, p{  
    color:rgb(240, 112, 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(240, 112, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(240, 112, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 30.1136, 0.5530, 0.3991 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(240, 112, 0) }
```

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

```
.border{ border-color:rgb(240, 112, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(240, 112, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(240, 112, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(240, 112, 0);  
box-shadow:4px 4px 4px 4px rgb(240, 112,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 30.1136, 0.5530, 0.3991 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(240, 112, 0) }
```

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

```
.background{ background-color: rgb(240,  
112, 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](#).

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