

# Converting Colors

$Y_{xy}(21.7281, 0.6225, 0.3439)$

Have a look what the booklet for  
Yxy(21.7281, 0.6225, 0.3439)  
contains.

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**Color**

**Yxy(21.7281, 0.6225, 0.3439)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F72E00
RGB	247, 46, 0
RGB Percent	97%, 18%, 0%
CMY	0.0314, 0.8194, 0.9997
CMYK	0.00, 0.81, 1.00, 0.03
HSL	11°, 100%, 48%
HSV	11°, 100%, 97%
XYZ	39.3305, 21.7281, 2.1229
YIQ	100.8550, 134.5620, 28.3060

# Conversions

## Conversions Part 2

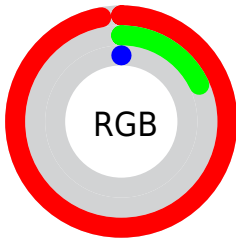
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	247, 57, 0
Decimal	16199168
CIELab	53.74, 72.00, 66.41
CIELCh	54, 97.949, 42.686
Yxy	21.7281, 0.6225, 0.3439
Android (android.graphics.Color)	4294389248 (0xFFFF72E00)
YUV	100.8550, -49.7215, 128.1692
Hunter-Lab	46.6134, 69.0374, 29.9292

# Details

The Yxy color **21.7281, 0.6225, 0.3439** 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 **48.4844, 0.2075, 0.2671**, and the grayscale version is **13.0887, 0.3127, 0.3290**.

A 20% lighter version of the original color is **33.1746, 0.5365, 0.3720**, and **9.7033, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **21.7250, 0.6225, 0.3439**, and if you desaturate by 10%, it is **23.7546, 0.5989, 0.3514**.

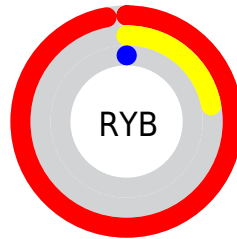
# Distribution



Red (97%)

Green (18%)

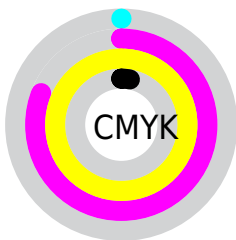
Blue (0%)



Red (97%)

Yellow (22%)

Blue (0%)

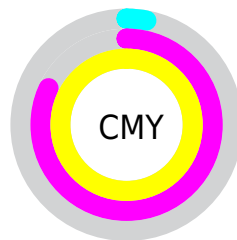


Cyan (0%)

Magenta (81%)

Yellow (100%)

Black (3%)



Cyan (3%)

Magenta (82%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 21.7281, 0.6225, 0.3439 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 21.7281, 0.6225, 0.3439 by changing the saturation by 10% instead.




 21.7281, 0.6225,  
0.3439


 21.7281, 0.6225,  
0.3439


 261.1230, 0.4646,  
0.3627


 13.6572, 0.6556,  
0.3292


 46.2962, 0.5688,  
0.3586


 7.8827, 0.6938,  
0.3062


 63.5622, 0.5471,  
0.3618


 4.0200, 0.7314,  
0.2686

 84.6621, 0.5284,  
0.3634

 1.6847, 0.7836,  
0.2164

 109.9802, 0.5121,  
0.3641

 0.4137, 0.8769,  
0.1231

 139.9010, 0.4979,  
0.3642


 0.0000, 1.0000,  
0.0000

 174.8088, 0.4854,

 0.0000, 0.0000,

0.3640

0.0000

 215.0880, 0.4744,  
0.3634

 21.7281, 0.6225,  
0.3439


 21.7281, 0.6225,  
0.3439


 21.7250, 0.6225,  
0.3439

 23.7546, 0.5989,  
0.3514

 26.6927, 0.5647,  
0.3567

 30.6481, 0.5238,  
0.3585

 35.7059, 0.4814,  
0.3572

 41.9419, 0.4415,  
0.3539

■ 49.4248, 0.4061,  
0.3492

■ 58.2181, 0.3759,  
0.3440

■ 68.3809, 0.3507,  
0.3388

■ 79.9686, 0.3298,  
0.3337

# Harmonies

## Analogous

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



21.7281, 0.5758, 0.2647



21.7281, 0.6225, 0.3439



21.7281, 0.5565, 0.4435

# Triad

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



21.7281, 0.6225, 0.3439



21.7281, 0.1742, 0.5605



21.7281, 0.1382, 0.1181

# Complementary

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



21.7281, 0.6225, 0.3439



48.4844, 0.2075, 0.2671

# 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.



21.7281, 0.0895, 0.1279



21.7281, 0.6225, 0.3439



21.7281, 0.0978, 0.3241

# Square

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



21.7281, 0.6225, 0.3439



21.7281, 0.2957, 0.6580



21.7281, 0.0761, 0.1821



21.7281, 0.2409, 0.1393



# Rectangle

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



21.7281, 0.6225, 0.3439



21.7281, 0.4758, 0.5242



21.7281, 0.0761, 0.1821



21.7281, 0.1171, 0.1178

# Sweetspot

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



21.7295, 0.6225, 0.3439



62.5234, 0.3761, 0.3441



24.0230, 0.3746, 0.1837



12.4912, 0.3882, 0.3463



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.



21.7295, 0.6225, 0.3439



23.3329, 0.6228, 0.3437



48.0697, 0.4903, 0.4489



16.9817, 0.3289, 0.3335



11.6407, 0.6202, 0.3458



1.1567, 0.5977, 0.3636



# Inverse Universe

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



48.4844, 0.2075, 0.2671



52.0905, 0.2075, 0.2670



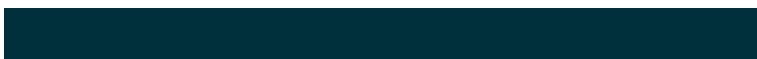
12.2002, 0.1614, 0.1008



18.2022, 0.2980, 0.3245



25.8390, 0.2079, 0.2682



2.4037, 0.2102, 0.2767



# Previews

## White Background



This preview shows how the Yxy color 21.7281, 0.6225, 0.3439 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

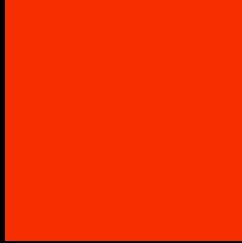
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 21.7281, 0.6225, 0.3439 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 21.7281, 0.6225, 0.3439**

## Background



This preview shows how black text looks on a background with the Yxy color 21.7281, 0.6225, 0.3439.



This preview shows how white text looks on a background with the Yxy color 21.7281, 0.6225, 0.3439.

# 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

21.7281, 0.6225, 0.3439

### Protanopia

21.8140, 0.4299, 0.4745

### Deuteranopia

21.9524, 0.4700, 0.4650



## Tritanopia

21.6691, 0.6043, 0.3304

# Trichromacy



## Original Color

21.7281, 0.6225, 0.3439

## Protanomaly

18.9158, 0.5212, 0.4130

## Deuteranomaly

19.6538, 0.5442, 0.4061

## Tritanomaly

21.6547, 0.6141, 0.3370

# Monochromacy



## Original Color

21.7281, 0.6225, 0.3439

## Achromatopsia

13.0136, 0.3127, 0.3290

## Achromatomaly

13.1250, 0.4673, 0.3567

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 21.7281, 0.6225, 0.3439 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(247, 46, 0)` looks like.

```
.text, #text, p{  
    color:rgb(247, 46, 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(247, 46, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(247, 46, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 21.7281, 0.6225, 0.3439 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(247, 46, 0) }
```

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

```
.border{ border-color:rgb(247, 46, 0) }
```

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

Here you see how a box with a 4 pixel rgb(247, 46, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(247, 46, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(247, 46, 0);  
box-shadow:4px 4px 4px 4px rgb(247, 46, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 21.7281, 0.6225, 0.3439 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(247, 46, 0) }
```

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

```
.background{ background-color: rgb(247, 46,  
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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