

# Converting Colors

$Yxy(21.6850, 0.6347, 0.3342)$

Have a look what the booklet for  
Yxy(21.6850, 0.6347, 0.3342)  
contains.

<b>Yxy(21.6836, 0.6347, 0.3342)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

**Color**

**Yxy(21.6836, 0.6347, 0.3342)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FE1700
RGB	254, 23, 0
RGB Percent	100%, 9%, 0%
CMY	0.0039, 0.9097, 0.9996
CMYK	0.00, 0.91, 1.00, 0.00
HSL	5°, 100%, 50%
HSV	5°, 100%, 100%
XYZ	41.1807, 21.6836, 2.0178
YIQ	89.4470, 145.0590, 41.8190

# Conversions

## Conversions Part 2

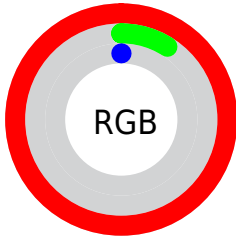
<b>Format</b>	<b>Color</b>
<b>RYB</b>	254, 25, 0
Decimal	16652032
CIELab	53.69, 77.96, 67.23
CIELCh	54, 102.943, 40.773
Yxy	21.6836, 0.6347, 0.3342
Android (android.graphics.Color)	4294842112 (0xFFFE1700)
YUV	89.4470, -44.0974, 144.3130
Hunter-Lab	46.5657, 76.3679, 30.0267

# Details

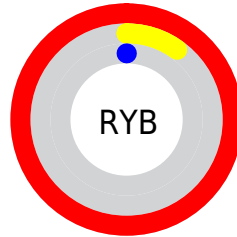
The Yxy color **21.6836, 0.6347, 0.3342** is a dark color, and the websafe version is hex **FF0000**. The color can be described as dark saturated red. A complement of this color would be **64.3570, 0.2167, 0.2999**, and the grayscale version is **10.1755, 0.3127, 0.3290**.

A 20% lighter version of the original color is **31.0785, 0.5470, 0.3634**, and **10.4391, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **21.6810, 0.6347, 0.3342**, and if you desaturate by 10%, it is **23.1075, 0.6151, 0.3381**.

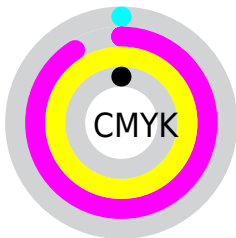
# Distribution



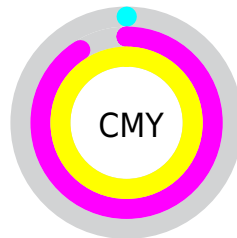
- Red (100%)
- Green (9%)
- Blue (0%)



- Red (100%)
- Yellow (10%)
- Blue (0%)



- Cyan (0%)
- Magenta (91%)
- Yellow (100%)
- Black (0%)




- Cyan (0%)
- Magenta (91%)
- Yellow (100%)


# Brightness & Saturation Gradients


These gradients show how the Yxy color 21.6836, 0.6347, 0.3342 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 21.6836, 0.6347, 0.3342 by changing the saturation by 10% instead.





 21.6836, 0.6347,  
0.3342

 21.6836, 0.6347,  
0.3342


 260.8895, 0.4715,  
0.3595


 13.6246, 0.6687,  
0.3180


 46.2225, 0.5795,  
0.3514

 7.8600, 0.7069,  
0.2931


 63.4712, 0.5572,  
0.3555


 4.0055, 0.7457,  
0.2543

 84.5519, 0.5377,  
0.3579

 1.6767, 0.7984,  
0.2016

 109.8490, 0.5208,  
0.3593

 0.4085, 0.8893,  
0.1107

 139.7469, 0.5061,  
0.3599


 0.0000, 1.0000,  
0.0000


 174.6300, 0.4931,


 0.0000, 0.0000,


0.3601


0.0000

 214.8828, 0.4816,  
0.3599


 21.6836, 0.6347,  
0.3342


 21.6836, 0.6347,  
0.3342

 21.6810, 0.6347,  
0.3342

 23.1075, 0.6151,  
0.3381

 25.5946, 0.5817,  
0.3414

 29.3110, 0.5387,  
0.3429

 34.3891, 0.4927,  
0.3427

 40.9437, 0.4490,  
0.3412

■ 49.0778, 0.4106,  
0.3390

■ 58.8850, 0.3782,  
0.3364

■ 70.4514, 0.3517,  
0.3338

■ 83.8576, 0.3301,  
0.3313

# Harmonies

## Analogous

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



21.6836, 0.5798, 0.2554



21.6836, 0.6347, 0.3342



21.6836, 0.5671, 0.4329

# Triad

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



21.6836, 0.6347, 0.3342



21.6836, 0.1733, 0.5893



21.6836, 0.1280, 0.1118

# Complementary

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



21.6836, 0.6347, 0.3342



64.3570, 0.2167, 0.2999

# 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.



21.6836, 0.0818, 0.1233



21.6836, 0.6347, 0.3342



21.6836, 0.0932, 0.3358

# Square

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



21.6836, 0.6347, 0.3342



21.6836, 0.2980, 0.6704



21.6836, 0.0700, 0.1813



21.6836, 0.2285, 0.1312



# Rectangle

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



21.6836, 0.6347, 0.3342



21.6836, 0.4838, 0.5162



21.6836, 0.0700, 0.1813



21.6836, 0.1079, 0.1119

# Sweetspot

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



21.6850, 0.6347, 0.3342



59.3618, 0.3784, 0.3364



26.9477, 0.3435, 0.1666



11.7682, 0.3913, 0.3375



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.



21.6850, 0.6347, 0.3342



21.8734, 0.6348, 0.3342



42.3176, 0.5188, 0.4263



18.2505, 0.3292, 0.3312



11.5178, 0.6333, 0.3353



1.2065, 0.6198, 0.3461



# Inverse Universe

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



64.3570, 0.2167, 0.2999



64.9250, 0.2166, 0.2999



17.4430, 0.1689, 0.1279



20.1845, 0.2980, 0.3268



34.0405, 0.2168, 0.3004



3.3931, 0.2178, 0.3039



# Previews

## White Background



This preview shows how the Yxy color 21.6836, 0.6347, 0.3342 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 21.6836, 0.6347, 0.3342 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 21.6836, 0.6347, 0.3342**

## Background



This preview shows how black text looks on a background with the Yxy color 21.6836, 0.6347, 0.3342.



This preview shows how white text looks on a background with the Yxy color 21.6836, 0.6347, 0.3342.

# 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

21.6836, 0.6347, 0.3342

### Protanopia

21.8245, 0.4288, 0.4729

### Deuteranopia

21.9524, 0.4700, 0.4650



## Tritanopia

21.6990, 0.6328, 0.3331

# Trichromacy



## Original Color

21.6836, 0.6347, 0.3342

## Protanomaly

17.6771, 0.5372, 0.3991

## Deuteranomaly

18.5522, 0.5577, 0.3953

## Tritanomaly

21.6924, 0.6336, 0.3336

# Monochromacy



## Original Color

21.6836, 0.6347, 0.3342

## Achromatopsia

9.9899, 0.3127, 0.3290

## Achromatomaly

10.4656, 0.4911, 0.3421

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 21.6836, 0.6347, 0.3342 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(254, 23, 0)` looks like.

```
.text, #text, p{  
    color:rgb(254, 23, 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(254, 23, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(254, 23, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 21.6836, 0.6347, 0.3342 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(254, 23, 0) }
```

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

```
.border{ border-color:rgb(254, 23, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(254, 23, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(254, 23, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(254, 23, 0);  
box-shadow:4px 4px 4px 4px rgb(254, 23, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 21.6836, 0.6347, 0.3342 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(254, 23, 0) }
```

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

```
.background{ background-color: rgb(254, 23,  
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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