

# Converting Colors

$Y_{xy}(21.6393, 0.5680, 0.3550)$

Have a look what the booklet for  
Yxy(21.6393, 0.5680, 0.3550)  
contains.

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**Color**

**Yxy(21.6816, 0.5679, 0.3546)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E34C2C
RGB	227, 76, 44
RGB Percent	89%, 30%, 17%
CMY	0.1097, 0.7020, 0.8274
CMYK	0.00, 0.67, 0.81, 0.11
HSL	10°, 77%, 53%
HSV	10°, 81%, 89%
XYZ	34.7236, 21.6816, 4.7386
YIQ	117.5010, 100.2680, 22.0600

# Conversions

## Conversions Part 2

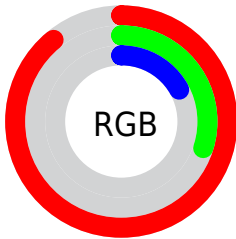
Format	Color
<a href="#">RYB</a>	<a href="#">227, 83, 44</a>
Decimal	<a href="#">14896172</a>
CIELab	<a href="#">53.69, 57.06, 49.80</a>
CIELCh	<a href="#">54, 75.736, 41.115</a>
Yxy	<a href="#">21.6816, 0.5679, 0.3546</a>
Android (android.graphics.Color)	<a href="#">4293086252 (0xFFE34C2C)</a>
YUV	<a href="#">117.5010, -36.2360, 96.0306</a>
Hunter-Lab	<a href="#">46.5635, 51.6258, 26.5607</a>

# Details

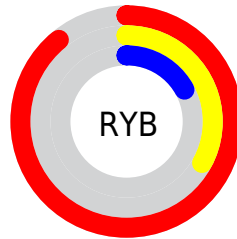
The Yxy color **21.6816, 0.5679, 0.3546** is a dark color, and the websafe version is hex **FF6633**. The color can be described as dark washed red. A complement of this color would be **45.1379, 0.2164, 0.2836**, and the grayscale version is **18.0429, 0.3127, 0.3290**.

A 20% lighter version of the original color is **38.5528, 0.4897, 0.3668**, and **7.8299, 0.6390, 0.3308** is the 20% darker color. If you saturate the color by 10%, you get **19.3405, 0.6017, 0.3495**, and if you desaturate by 10%, it is **24.8701, 0.5269, 0.3565**.

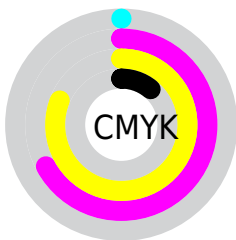
# Distribution



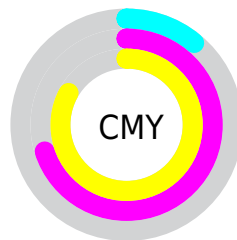
- Red (89%)
- Green (30%)
- Blue (17%)



- Red (89%)
- Yellow (33%)
- Blue (17%)



- Cyan (0%)
- Magenta (67%)
- Yellow (81%)
- Black (11%)




- Cyan (11%)
- Magenta (70%)
- Yellow (83%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 21.6816, 0.5679, 0.3546 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 21.6816, 0.5679, 0.3546 by changing the saturation by 10% instead.





 21.6816, 0.5679,  
0.3546


 21.6816, 0.5679,  
0.3546


260.8790, 0.4302,  
0.3565


 13.6231, 0.6013,  
0.3468


 46.2192, 0.5175,  
0.3603


 7.8590, 0.6426,  
0.3329


 63.4671, 0.4985,  
0.3608

 4.0049, 0.6927,  
0.3073

 84.5469, 0.4824,  
0.3606

 1.6763, 0.7418,  
0.2582

 109.8431, 0.4688,  
0.3600

 0.4082, 0.8419,  
0.1581

 139.7400, 0.4571,  
0.3593

 0.0000, 1.0000,  
0.0000

 174.6220, 0.4469,

 0.0000, 0.0000,

0.3584

0.0000

214.8735, 0.4380,  
0.3574

■ 21.6816, 0.5679,  
0.3546

■ 21.6816, 0.5679,  
0.3546

■ 19.3405, 0.6017,  
0.3495

■ 24.8701, 0.5269,  
0.3565


■ 17.8294, 0.6238,  
0.3429


■ 28.9748, 0.4842,  
0.3555

■ 34.0614, 0.4439,  
0.3525


■ 40.1887, 0.4081,  
0.3482

■ 47.4105, 0.3775,  
0.3434

 55.7770, 0.3520,  
0.3384

 65.3352, 0.3310,  
0.3337

 76.1295, 0.3137,  
0.3293

 88.2020, 0.2994,  
0.3252

# Harmonies

## Analogous

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



21.6816, 0.5149, 0.2791



21.6816, 0.5679, 0.3546



21.6816, 0.5288, 0.4397

# Triad

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



21.6816, 0.5679, 0.3546



21.6816, 0.2131, 0.5079



21.6816, 0.1633, 0.1490

# Complementary

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



21.6816, 0.5679, 0.3546



45.1379, 0.2164, 0.2836

# 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.



21.6816, 0.1194, 0.1622



21.6816, 0.5679, 0.3546



21.6816, 0.1378, 0.3400

# Square

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



21.6816, 0.5679, 0.3546



21.6816, 0.3228, 0.5850



21.6816, 0.1101, 0.2180



21.6816, 0.2510, 0.1667



# Rectangle

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



21.6816, 0.5679, 0.3546



21.6816, 0.4702, 0.5021



21.6816, 0.1101, 0.2180



21.6816, 0.1443, 0.1497

# Sweetspot

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



21.6829, 0.5679, 0.3546



68.5654, 0.3605, 0.3402



22.1463, 0.3571, 0.1856



13.8441, 0.3697, 0.3419



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.



21.6829, 0.5679, 0.3546



23.6320, 0.6186, 0.3443



43.7963, 0.4671, 0.4469



14.7729, 0.3288, 0.3332



10.5137, 0.6217, 0.3446



0.8972, 0.5954, 0.3654

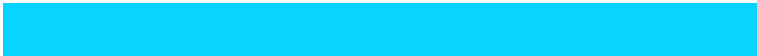


# Inverse Universe

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



45.1379, 0.2164, 0.2836



54.2526, 0.2095, 0.2729



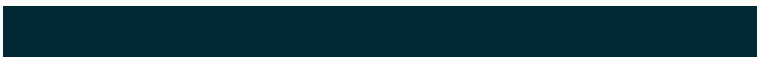
16.1893, 0.1800, 0.1460



15.8855, 0.2981, 0.3248



24.2013, 0.2090, 0.2724

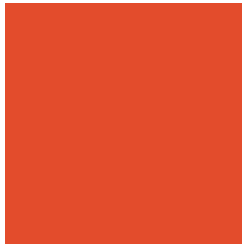


1.9014, 0.2115, 0.2815



# Previews

## White Background



This preview shows how the Yxy color 21.6816, 0.5679, 0.3546 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 21.6816, 0.5679, 0.3546 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 21.6816, 0.5679, 0.3546**

## Background



This preview shows how black text looks on a background with the Yxy color 21.6816, 0.5679, 0.3546.



This preview shows how white text looks on a background with the Yxy color 21.6816, 0.5679, 0.3546.

# 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

21.6816, 0.5679, 0.3546

### Protanopia

21.8559, 0.4064, 0.4449

### Deuteranopia

21.6942, 0.4599, 0.4516



## Tritanopia

21.6505, 0.5363, 0.3260

# Trichromacy



## Original Color

21.6816, 0.5679, 0.3546

## Protanomaly

20.4169, 0.4712, 0.4059

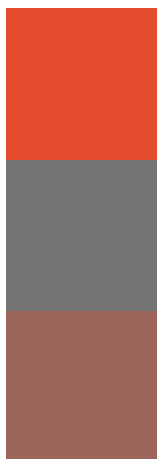
## Deuteranomaly

20.6636, 0.5070, 0.4092

## Tritanomaly

21.6292, 0.5508, 0.3374

# Monochromacy



## Original Color

21.6816, 0.5679, 0.3546

## Achromatopsia

17.7888, 0.3127, 0.3290

## Achromatomaly

17.4090, 0.4112, 0.3491

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 21.6816, 0.5679, 0.3546 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(227, 76, 44)` looks like.

```
.text, #text, p{  
    color:rgb(227, 76, 44)  
}
```

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(227, 76, 44) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(227, 76, 44) }
```

## Border

The CSS property to change the border of an element to Yxy 21.6816, 0.5679, 0.3546 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(227, 76, 44) }
```

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

```
.border{ border-color:rgb(227, 76, 44) }
```

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

Here you see how a box with a 4 pixel `rgb(227, 76, 44)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(227, 76, 44); -webkit-box-  
shadow:4px 4px 4px 4px rgb(227, 76, 44);  
box-shadow:4px 4px 4px 4px rgb(227, 76,  
44) }
```



# Background

The CSS property to change the background color of an element to Yxy 21.6816, 0.5679, 0.3546 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(227, 76, 44) }
```

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

```
.background{ background-color: rgb(227, 76,  
44) }
```

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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