

# Converting Colors

$Y_{xy}(21.3157, 0.5887, 0.3410)$

Have a look what the booklet for  
Yxy(21.3157, 0.5887, 0.3410)  
contains.

<b>Yxy(21.4034, 0.5891, 0.3412)</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(21.4034, 0.5891, 0.3412)**

# Conversions

## Conversions Part 1

Format	Color
Hex	ED3C2A
RGB	237, 60, 42
RGB Percent	93%, 24%, 16%
CMY	0.0707, 0.7645, 0.8354
CMYK	0.00, 0.75, 0.82, 0.07
HSL	6°, 84%, 55%
HSV	6°, 82%, 93%
XYZ	36.9541, 21.4034, 4.3723
YIQ	110.8710, 111.2700, 31.9260

# Conversions

## Conversions Part 2

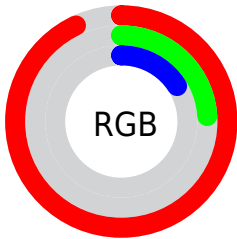
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	237, 62, 42
Decimal	15547434
CIE Lab	53.39, 65.84, 51.15
CIE LCh	53, 83.376, 37.840
Yxy	21.4034, 0.5891, 0.3412
Android (android.graphics.Color)	4293737514 (0xFFED3C2A)
YUV	110.8710, -33.9534, 110.6151
Hunter-Lab	46.2638, 61.6187, 26.7813

# Details

The Yxy color **21.4034, 0.5891, 0.3412** is a dark color, and the websafe version is hex **FF3333**. The color can be described as dark washed red. A complement of this color would be **57.2259, 0.2213, 0.3048**, and the grayscale version is **15.9384, 0.3127, 0.3290**.

A 20% lighter version of the original color is **35.4311, 0.5024, 0.3575**, and **8.7707, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **19.4670, 0.6198, 0.3376**, and if you desaturate by 10%, it is **24.3574, 0.5476, 0.3431**.

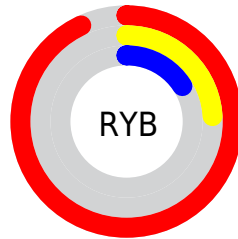
# Distribution



Red (93%)

Green (24%)

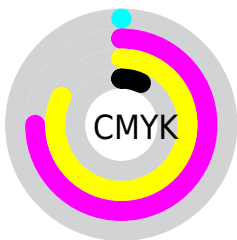
Blue (16%)



Red (93%)

Yellow (24%)

Blue (16%)

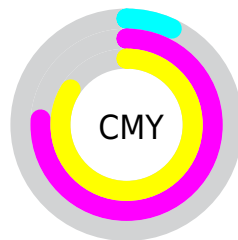


Cyan (0%)

Magenta (75%)

Yellow (82%)

Black (7%)



Cyan (7%)

Magenta (76%)


Yellow (84%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 21.4034, 0.5891, 0.3412 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 21.4034, 0.5891, 0.3412 by changing the saturation by 10% instead.





 21.4034, 0.5891,  
0.3412

 21.4034, 0.5891,  
0.3412


259.4146, 0.4408,  
0.3524


 13.4192, 0.6243,  
0.3306


 45.7579, 0.5353,  
0.3508


 7.7178, 0.6684,  
0.3133


 62.8971, 0.5147,  
0.3527

 3.9149, 0.7176,  
0.2824

 83.8566, 0.4974,  
0.3536

 1.6261, 0.7694,  
0.2306

 109.0210, 0.4826,  
0.3538

 0.3751, 0.8712,  
0.1288

 138.7746, 0.4699,  
0.3537

 0.0000, 1.0000,  
0.0000

 173.5018, 0.4589,

 0.0000, 0.0000,

0.3534

0.0000

213.5870, 0.4493,  
0.3529

■ 21.4034, 0.5891,  
0.3412

■ 21.4034, 0.5891,  
0.3412

■ 19.4670, 0.6198,  
0.3376

■ 24.3574, 0.5476,  
0.3431

■ 18.5733, 0.6342,  
0.3346


■ 28.4394, 0.5019,  
0.3432

■ 33.7497, 0.4577,  
0.3419

■ 40.3761, 0.4183,  
0.3398

■ 48.3988, 0.3848,  
0.3372

 57.8912, 0.3571,  
0.3345

 68.9218, 0.3346,  
0.3319

 81.5547, 0.3164,  
0.3295

 95.8332, 0.3017,  
0.3276

# Harmonies

## Analogous

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



21.4034, 0.5223, 0.2644



21.4034, 0.5891, 0.3412



21.4034, 0.5503, 0.4289

# Triad

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



21.4034, 0.5891, 0.3412



21.4034, 0.2127, 0.5482



21.4034, 0.1452, 0.1366

# Complementary

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



21.4034, 0.5891, 0.3412



57.2259, 0.2213, 0.3048

# 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.



21.4034, 0.1043, 0.1531



21.4034, 0.5891, 0.3412



21.4034, 0.1292, 0.3584

# Square

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



21.4034, 0.5891, 0.3412



21.4034, 0.3301, 0.6096



21.4034, 0.0976, 0.2165



21.4034, 0.2318, 0.1519



# Rectangle

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



21.4034, 0.5891, 0.3412



21.4034, 0.4881, 0.4977



21.4034, 0.0976, 0.2165



21.4034, 0.1272, 0.1382

# Sweetspot

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



21.4047, 0.5891, 0.3412



65.0356, 0.3643, 0.3353



24.8621, 0.3385, 0.1726



13.0684, 0.3740, 0.3362



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.



21.4047, 0.5891, 0.3412



22.0015, 0.6330, 0.3346



41.8553, 0.4873, 0.4323



15.2783, 0.3291, 0.3312



10.2236, 0.6327, 0.3358



0.8796, 0.6158, 0.3492

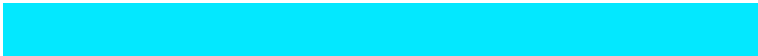


# Inverse Universe

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



57.2259, 0.2213, 0.3048



64.7337, 0.2166, 0.2994



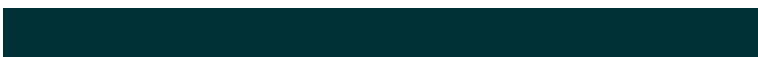
20.8286, 0.1837, 0.1639



16.8694, 0.2981, 0.3267



29.9894, 0.2166, 0.2997



2.4246, 0.2178, 0.3041



# Previews

## White Background



This preview shows how the Yxy color 21.4034, 0.5891, 0.3412 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 21.4034, 0.5891, 0.3412 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 21.4034, 0.5891, 0.3412**

## **Background**



This preview shows how black text looks on a background with the Yxy color 21.4034, 0.5891, 0.3412.



This preview shows how white text looks on a background with the Yxy color 21.4034, 0.5891, 0.3412.

# 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

21.4034, 0.5891, 0.3412

### Protanopia

21.5154, 0.4052, 0.4427

### Deuteranopia

21.3137, 0.4636, 0.4556



## Tritanopia

21.3464, 0.5739, 0.3291

# Trichromacy



## Original Color

21.4034, 0.5891, 0.3412

## Protanomaly

19.3046, 0.4843, 0.3958

## Deuteranomaly

19.8362, 0.5218, 0.4030

## Tritanomaly

21.3895, 0.5796, 0.3339

# Monochromacy



## Original Color

21.4034, 0.5891, 0.3412

## Achromatopsia

15.8961, 0.3127, 0.3290

## Achromatomaly

15.4943, 0.4250, 0.3392

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 21.4034, 0.5891, 0.3412 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(237, 60, 42)` looks like.

```
.text, #text, p{  
    color:rgb(237, 60, 42)  
}
```

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(237, 60, 42) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(237, 60, 42) }
```

## Border

The CSS property to change the border of an element to Yxy 21.4034, 0.5891, 0.3412 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(237, 60, 42) }
```

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

```
.border{ border-color:rgb(237, 60, 42) }
```

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

Here you see how a box with a 4 pixel rgb(237, 60, 42) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(237, 60, 42); -webkit-box-  
shadow:4px 4px 4px 4px rgb(237, 60, 42);  
box-shadow:4px 4px 4px 4px rgb(237, 60,  
42) }
```



# Background

The CSS property to change the background color of an element to  $\text{Yxy } 21.4034, 0.5891, 0.3412$  is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(237, 60, 42) }
```

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

```
.background{ background-color: rgb(237, 60,  
42) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor