

Converting Colors

$Y_{xy}(20.2428, 0.5940, 0.3298)$

Have a look what the booklet for
Yxy(20.2428, 0.5940, 0.3298)
contains.

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Color

Yxy(20.2428, 0.5940, 0.3298)

Conversions

Conversions Part 1

Format	Color
Hex	ED2F2F
RGB	237, 47, 47
RGB Percent	93%, 18%, 18%
CMY	0.0705, 0.8158, 0.8156
CMYK	0.00, 0.80, 0.80, 0.07
HSL	360°, 84%, 56%
HSV	360°, 80%, 93%
XYZ	36.4591, 20.2428, 4.6771
YIQ	103.8100, 113.2400, 40.2800

Conversions

Conversions Part 2

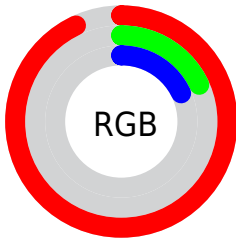
Format	Color
R_{YB}	237, 47, 47
Decimal	15544111
CIE Lab	52.11, 69.71, 47.39
CIE LCh	52, 84.296, 34.206
Yxy	20.2428, 0.5940, 0.3298
Android (android.graphics.Color)	4293734191 (0xFFED2F2F)
YUV	103.8100, -28.0073, 116.8076
Hunter-Lab	44.9920, 65.9110, 25.3310

Details

The Yxy color **20.2428, 0.5940, 0.3298** 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 **67.2944, 0.2284, 0.3288**, and the grayscale version is **13.8417, 0.3127, 0.3290**.

A 20% lighter version of the original color is **33.4551, 0.5043, 0.3444**, and **8.7728, 0.6394, 0.3296** is the 20% darker color. If you saturate the color by 10%, you get **18.6943, 0.6247, 0.3299**, and if you desaturate by 10%, it is **22.9246, 0.5507, 0.3297**.

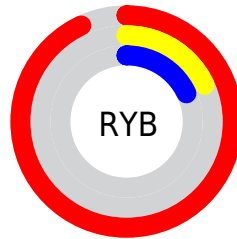
Distribution



Red (93%)

Green (18%)

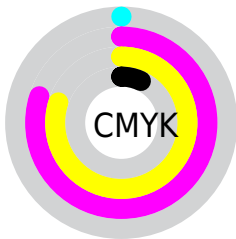
Blue (18%)



Red (93%)

Yellow (18%)

Blue (18%)

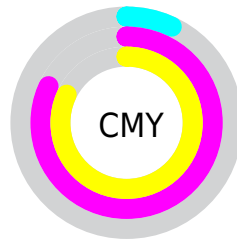


Cyan (0%)

Magenta (80%)

Yellow (80%)

Black (7%)



Cyan (7%)


Magenta (82%)


Yellow (82%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 20.2428, 0.5940, 0.3298 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 20.2428, 0.5940, 0.3298 by changing the saturation by 10% instead.


 20.2428, 0.5940,
0.3298


 20.2428, 0.5940,
0.3298


253.2265, 0.4409,
0.3464


 12.5717, 0.6313,
0.3180


 43.8239, 0.5377,
0.3412

 7.1343, 0.6777,
0.2989


 60.5026, 0.5165,
0.3438


 3.5462, 0.7331,
0.2669

 80.9527, 0.4987,
0.3453

 1.4231, 0.7880,
0.2120

 105.5584, 0.4836,
0.3462

 0.2337, 0.9131,
0.0869

 134.7043, 0.4706,
0.3466

 0.0000, 1.0000,
0.0000

 168.7747, 0.4593,

 0.0000, 0.0000,

0.3467

0.0000

208.1539, 0.4496,
0.3466

■ 20.2428, 0.5940,
0.3298

■ 20.2428, 0.5940,
0.3298

■ 18.6943, 0.6247,
0.3299

■ 22.9246, 0.5507,
0.3297


■ 18.0074, 0.6401,
0.3300


■ 26.8965, 0.5024,
0.3295

■ 32.2946, 0.4559,
0.3294

■ 39.2367, 0.4149,
0.3293

■ 47.8286, 0.3807,
0.3292

 58.1665, 0.3529,
0.3291

 70.3395, 0.3307,
0.3290

 84.4303, 0.3130,
0.3290

 96.7473, 0.3017,
0.3290

Harmonies

Analogous

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



20.2428, 0.5123, 0.2532



20.2428, 0.5940, 0.3298



20.2428, 0.5635, 0.4164

Triad

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



20.2428, 0.5940, 0.3298



20.2428, 0.2225, 0.5742



20.2428, 0.1347, 0.1331

Complementary

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



20.2428, 0.5940, 0.3298



67.2944, 0.2284, 0.3288

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.



20.2428, 0.0981, 0.1540



20.2428, 0.5940, 0.3298



20.2428, 0.1321, 0.3823

Square

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



20.2428, 0.5940, 0.3298



20.2428, 0.3431, 0.6122



20.2428, 0.0951, 0.2256



20.2428, 0.2159, 0.1450

Rectangle

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



20.2428, 0.5940, 0.3298



20.2428, 0.5036, 0.4863



20.2428, 0.0951, 0.2256



20.2428, 0.1183, 0.1360

Sweetspot

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



20.2440, 0.5940, 0.3298



63.6413, 0.3631, 0.3291



25.6136, 0.3172, 0.1619



12.6990, 0.3731, 0.3292



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.



20.2440, 0.5940, 0.3298



21.5039, 0.6353, 0.3299



36.6285, 0.5035, 0.4130



15.0541, 0.3293, 0.3290



9.8299, 0.6401, 0.3300



0.7719, 0.6400, 0.3299

Inverse Universe

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



20.2440, 0.5940, 0.3298



21.5039, 0.6353, 0.3299



27.0204, 0.1934, 0.1964



15.0541, 0.3293, 0.3290



9.8299, 0.6401, 0.3300



0.7719, 0.6400, 0.3299

Previews

White Background



This preview shows how the Yxy color 20.2428, 0.5940, 0.3298 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 20.2428, 0.5940, 0.3298 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 20.2428, 0.5940, 0.3298

Background



This preview shows how black text looks on a background with the Yxy color 20.2428, 0.5940, 0.3298.



This preview shows how white text looks on a background with the Yxy color 20.2428, 0.5940, 0.3298.

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

20.2428, 0.5940, 0.3298

Protanopia

20.4030, 0.3934, 0.4294

Deuteranopia

20.2187, 0.4594, 0.4505



Tritanopia

20.2428, 0.5940, 0.3298

Trichromacy



Original Color

20.2428, 0.5940, 0.3298

Protanomaly

17.7599, 0.4789, 0.3810

Deuteranomaly

18.2208, 0.5244, 0.3917

Tritanomaly

20.2428, 0.5940, 0.3298

Monochromacy



Original Color

20.2428, 0.5940, 0.3298

Achromatopsia

13.8432, 0.3127, 0.3290

Achromatomaly

13.4864, 0.4299, 0.3293

CSS Examples

Text

The CSS property to change the color of the text to Yxy 20.2428, 0.5940, 0.3298 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, 47, 47)` looks like.

```
.text, #text, p{  
    color:rgb(237, 47, 47)  
}
```

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, 47, 47) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(237, 47, 47) }
```

Border

The CSS property to change the border of an element to Yxy 20.2428, 0.5940, 0.3298 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, 47, 47) }
```

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

```
.border{ border-color:rgb(237, 47, 47) }
```

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

Here you see how a box with a 4 pixel `rgb(237, 47, 47)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(237, 47, 47); -webkit-box-  
shadow:4px 4px 4px 4px rgb(237, 47, 47);  
box-shadow:4px 4px 4px 4px rgb(237, 47,  
47) }
```


Background

The CSS property to change the background color of an element to Yxy 20.2428, 0.5940, 0.3298 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(237, 47, 47) }
```

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

```
.background{ background-color: rgb(237, 47,  
47) }
```

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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