

Converting Colors

$Y_{xy}(21.4142, 0.6201, 0.3190)$

Have a look what the booklet for
Yxy(21.4142, 0.6201, 0.3190)
contains.

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Color

Yxy(21.4272, 0.6198, 0.3188)

Conversions

Conversions Part 1

Format	Color
Hex	FF002A
RGB	255, 0, 42
RGB Percent	100%, 0%, 16%
CMY	0.0000, 0.9997, 0.8355
CMYK	0.00, 1.00, 0.84, 0.00
HSL	350°, 100%, 50%
HSV	350°, 100%, 100%
XYZ	41.6580, 21.4272, 4.1268
YIQ	81.0330, 138.4980, 67.1220

Conversions

Conversions Part 2

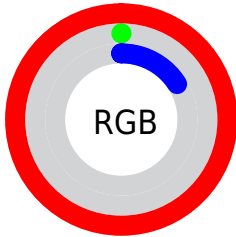
Format	Color
R_{YB}	255, 0, 42
Decimal	16711722
CIE _{Lab}	53.41, 80.60, 52.50
CIE _{LCh}	53, 96.192, 33.077
Yxy	21.4272, 0.6198, 0.3188
Android (android.graphics.Color)	4294901802 (0xFFFF002A)
YUV	81.0330, -19.2433, 152.5691
Hunter-Lab	46.2895, 79.6335, 27.1168

Details

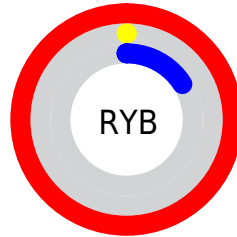
The Yxy color **21.4272, 0.6198, 0.3188** is a dark color, and the websafe version is hex **FF0033**. The color can be described as dark saturated red. A complement of this color would be **76.3299, 0.2397, 0.3829**, and the grayscale version is **8.2602, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.5307, 0.5217, 0.3366**, and **10.6914, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **21.4265, 0.6198, 0.3188**, and if you desaturate by 10%, it is **22.3415, 0.5931, 0.3118**.

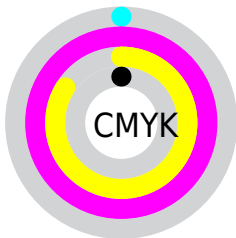
Distribution



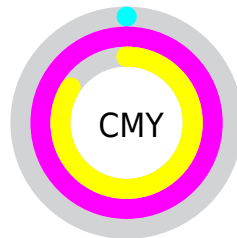
- Red (100%)
- Green (0%)
- Blue (16%)



- Red (100%)
- Yellow (0%)
- Blue (16%)



- Cyan (0%)
- Magenta (100%)
- Yellow (84%)
- Black (0%)




- Cyan (0%)
- Magenta (100%)
- Yellow (84%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 21.4272, 0.6198, 0.3188 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 21.4272, 0.6198, 0.3188 by changing the saturation by 10% instead.


 21.4272, 0.6198,
0.3188


 21.4272, 0.6198,
0.3188


259.5402, 0.4568,
0.3446


 13.4366, 0.6573,
0.3043


 45.7974, 0.5615,
0.3342


 7.7299, 0.7041,
0.2828


 62.9459, 0.5390,
0.3381

 3.9226, 0.7529,
0.2471


 83.9158, 0.5199,
0.3407

 1.6304, 0.8062,
0.1938

 109.0914, 0.5035,
0.3424

 0.3779, 0.8992,
0.1008

 138.8573, 0.4893,
0.3434

 0.0000, 1.0000,
0.0000

 173.5978, 0.4771,

 0.0000, 0.0000,

0.3441

0.0000

213.6973, 0.4663,
0.3444

■ 21.4272, 0.6198,
0.3188

■ 21.4272, 0.6198,
0.3188

■ 21.4265, 0.6198,
0.3188

■ 22.3415, 0.5931,
0.3118

■ 24.2824, 0.5562,
0.3066

■ 27.5452, 0.5135,
0.3044

■ 32.3128, 0.4706,
0.3051

■ 38.7390, 0.4313,
0.3078

■ 46.9587, 0.3974,
0.3116

■ 57.0928, 0.3692,
0.3160

■ 69.2516, 0.3462,
0.3206

■ 83.5371, 0.3276,
0.3249

Harmonies

Analogous

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



21.4272, 0.5286, 0.2412



21.4272, 0.6198, 0.3188



21.4272, 0.5833, 0.4082

Triad

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



21.4272, 0.6198, 0.3188



21.4272, 0.2123, 0.6153



21.4272, 0.1194, 0.1194

Complementary

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



21.4272, 0.6198, 0.3188



76.3299, 0.2397, 0.3829

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.



21.4272, 0.0835, 0.1408



21.4272, 0.6198, 0.3188



21.4272, 0.1174, 0.3947

Square

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



21.4272, 0.6198, 0.3188



21.4272, 0.3393, 0.6368



21.4272, 0.0804, 0.2168



21.4272, 0.2019, 0.1308

Rectangle

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



21.4272, 0.6198, 0.3188



21.4272, 0.5158, 0.4842



21.4272, 0.0804, 0.2168



21.4272, 0.1033, 0.1224

Sweetspot

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



21.4283, 0.6198, 0.3188



57.0649, 0.3692, 0.3160



21.2945, 0.2783, 0.1307



11.2486, 0.3805, 0.3141



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.



21.4283, 0.6198, 0.3188



21.4265, 0.6198, 0.3188



27.7639, 0.5911, 0.3688



18.0358, 0.3268, 0.3251



11.2100, 0.6167, 0.3171



1.1046, 0.5888, 0.3017

Inverse Universe

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



21.4283, 0.6198, 0.3188



21.4265, 0.6198, 0.3188



35.9779, 0.1927, 0.2138



18.0358, 0.3268, 0.3251



11.2100, 0.6167, 0.3171



1.1046, 0.5888, 0.3017

Previews

White Background



This preview shows how the Yxy color 21.4272, 0.6198, 0.3188 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 21.4272, 0.6198, 0.3188 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 21.4272, 0.6198, 0.3188

Background



This preview shows how black text looks on a background with the Yxy color 21.4272, 0.6198, 0.3188.



This preview shows how white text looks on a background with the Yxy color 21.4272, 0.6198, 0.3188.

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

21.4272, 0.6198, 0.3188

Protanopia

21.8565, 0.3976, 0.4341

Deuteranopia

21.7321, 0.4685, 0.4601



Tritanopia

21.6836, 0.6347, 0.3342

Trichromacy



Original Color

21.4272, 0.6198, 0.3188



Protanomaly

16.4074, 0.5105, 0.3594



Deuteranomaly

17.2464, 0.5614, 0.3776



Tritanomaly

21.4470, 0.6328, 0.3299

Monochromacy



Original Color

21.4272, 0.6198, 0.3188



Achromatopsia

8.2283, 0.3127, 0.3290



Achromatomaly

8.7905, 0.4769, 0.3051

CSS Examples

Text

The CSS property to change the color of the text to Yxy 21.4272, 0.6198, 0.3188 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(255, 0, 42)` looks like.

```
.text, #text, p{  
    color:rgb(255, 0, 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(255, 0, 42) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 0, 42) }
```

Border

The CSS property to change the border of an element to Yxy 21.4272, 0.6198, 0.3188 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(255, 0, 42) }
```

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

```
.border{ border-color:rgb(255, 0, 42) }
```

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

Here you see how a box with a 4 pixel rgb(255, 0, 42) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 0, 42); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 0, 42);  
box-shadow:4px 4px 4px 4px rgb(255, 0, 42)  
}
```


Background

The CSS property to change the background color of an element to Yxy 21.4272, 0.6198, 0.3188 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 0, 42) }
```

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

```
.background{ background-color: rgb(255, 0,  
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](#).

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