

Converting Colors

$Y_{xy}(20.8741, 0.6218, 0.3445)$

Have a look what the booklet for
Yxy(20.8741, 0.6218, 0.3445)
contains.

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Color

Yxy(20.8312, 0.6218, 0.3445)

Conversions

Conversions Part 1

Format	Color
Hex	F22E00
RGB	242, 46, 0
RGB Percent	95%, 18%, 0%
CMY	0.0509, 0.8197, 1.0000
CMYK	0.00, 0.81, 1.00, 0.05
HSL	11°, 100%, 47%
HSV	11°, 100%, 95%
XYZ	37.5990, 20.8312, 2.0378
YIQ	99.3600, 131.5820, 27.2460

Conversions

Conversions Part 2

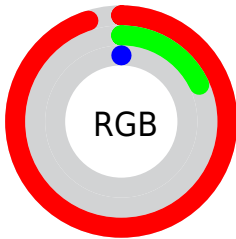
Format	Color
R_{YB}	242, 57, 0
Decimal	15871488
CIE _{Lab}	52.76, 70.64, 65.46
CIE _{LCh}	53, 96.309, 42.818
Yxy	20.8312, 0.6218, 0.3445
Android (android.graphics.Color)	4294061568 (0xFFFF22E00)
YUV	99.3600, -48.9845, 125.0953
Hunter-Lab	45.6412, 67.1751, 29.3017

Details

The Yxy color **20.8312, 0.6218, 0.3445** is a dark color, and the websafe version is hex **FF3300**. The color can be described as dark saturated red. A complement of this color would be **45.9069, 0.2072, 0.2659**, and the grayscale version is **12.6725, 0.3127, 0.3290**.

A 20% lighter version of the original color is **32.9551, 0.5375, 0.3711**, and **9.2301, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **20.8326, 0.6218, 0.3445**, and if you desaturate by 10%, it is **22.7950, 0.5980, 0.3521**.

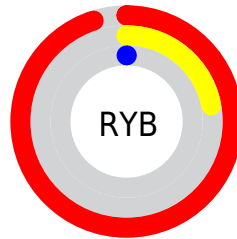
Distribution



Red (95%)

Green (18%)

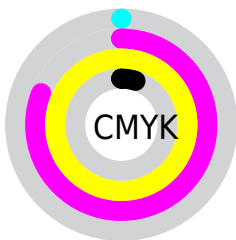
Blue (0%)



Red (95%)

Yellow (22%)

Blue (0%)

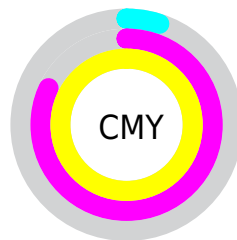


Cyan (0%)

Magenta (81%)

Yellow (100%)

Black (5%)



Cyan (5%)


Magenta (82%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 20.8312, 0.6218, 0.3445 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 20.8312, 0.6218, 0.3445 by changing the saturation by 10% instead.


 20.8312, 0.6218,
0.3445


 20.8312, 0.6218,
0.3445


 256.3801, 0.4631,
0.3629


 13.0007, 0.6556,
0.3297


 44.8064, 0.5675,
0.3592

 7.4290, 0.6939,
0.3061


 61.7199, 0.5457,
0.3623

 3.7318, 0.7324,
0.2676

 82.4299, 0.5269,
0.3638

 1.5247, 0.7862,
0.2138

 107.3207, 0.5106,
0.3645

 0.3060, 0.8963,
0.1037

 136.7767, 0.4963,
0.3645


 0.0000, 1.0000,
0.0000

 171.1823, 0.4838,

 0.0000, 0.0000,


0.3642


0.0000


 210.9220, 0.4728,
0.3636


 20.8312, 0.6218,
0.3445


 20.8312, 0.6218,
0.3445

 20.8326, 0.6218,
0.3445

 22.7950, 0.5980,
0.3521

 25.6235, 0.5638,
0.3573

 29.4167, 0.5230,
0.3591

 34.2541, 0.4808,
0.3578

 40.2069, 0.4411,
0.3543

■ 47.3396, 0.4058,
0.3496

■ 55.7119, 0.3758,
0.3443

■ 65.3794, 0.3506,
0.3390

■ 76.3941, 0.3298,
0.3338

Harmonies

Analogous

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



20.8312, 0.5757, 0.2652



20.8312, 0.6218, 0.3445



20.8312, 0.5558, 0.4442

Triad

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



20.8312, 0.6218, 0.3445



20.8312, 0.1741, 0.5588



20.8312, 0.1388, 0.1185

Complementary

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



20.8312, 0.6218, 0.3445



45.9069, 0.2072, 0.2659

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.



20.8312, 0.0900, 0.1282



20.8312, 0.6218, 0.3445



20.8312, 0.0980, 0.3233

Square

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



20.8312, 0.6218, 0.3445



20.8312, 0.2955, 0.6573



20.8312, 0.0765, 0.1821



20.8312, 0.2417, 0.1398

Rectangle

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



20.8312, 0.6218, 0.3445



20.8312, 0.4752, 0.5248



20.8312, 0.0765, 0.1821



20.8312, 0.1177, 0.1181

Sweetspot

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



20.8326, 0.6218, 0.3445



62.6497, 0.3760, 0.3444



22.9409, 0.3745, 0.1837



12.5202, 0.3881, 0.3466



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.



20.8326, 0.6218, 0.3445



23.4108, 0.6222, 0.3442



45.9267, 0.4902, 0.4490



16.2447, 0.3289, 0.3336



11.3362, 0.6194, 0.3464



1.0752, 0.5955, 0.3654

Inverse Universe

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



45.9069, 0.2072, 0.2659



51.6285, 0.2071, 0.2657



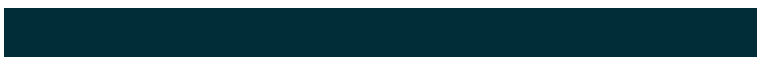
11.6690, 0.1614, 0.1009



17.3886, 0.2981, 0.3244



24.8494, 0.2075, 0.2670



2.1971, 0.2100, 0.2761

Previews

White Background



This preview shows how the Yxy color 20.8312, 0.6218, 0.3445 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 20.8312, 0.6218, 0.3445 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 20.8312, 0.6218, 0.3445

Background



This preview shows how black text looks on a background with the Yxy color 20.8312, 0.6218, 0.3445.



This preview shows how white text looks on a background with the Yxy color 20.8312, 0.6218, 0.3445.

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

20.8312, 0.6218, 0.3445

Protanopia

21.0182, 0.4291, 0.4755

Deuteranopia

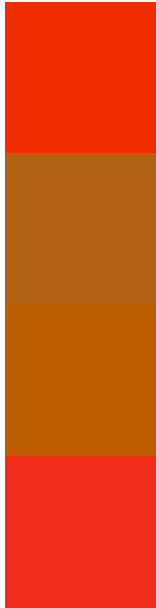
20.9065, 0.4710, 0.4642



Tritanopia

20.7722, 0.6028, 0.3304

Trichromacy



Original Color

20.8312, 0.6218, 0.3445

Protanomaly

18.2440, 0.5194, 0.4149

Deuteranomaly

18.7759, 0.5441, 0.4062

Tritanomaly

20.7577, 0.6130, 0.3374

Monochromacy



Original Color

20.8312, 0.6218, 0.3445

Achromatopsia

12.4772, 0.3127, 0.3290

Achromatomaly

12.6755, 0.4658, 0.3572

CSS Examples

Text

The CSS property to change the color of the text to Yxy 20.8312, 0.6218, 0.3445 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(242, 46, 0)` looks like.

```
.text, #text, p{  
    color:rgb(242, 46, 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(242, 46, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(242, 46, 0) }
```

Border

The CSS property to change the border of an element to Yxy 20.8312, 0.6218, 0.3445 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(242, 46, 0) }
```

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

```
.border{ border-color:rgb(242, 46, 0) }
```

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

Here you see how a box with a 4 pixel rgb(242, 46, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(242, 46, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(242, 46, 0);  
box-shadow:4px 4px 4px 4px rgb(242, 46, 0)  
}
```


Background

The CSS property to change the background color of an element to Yxy 20.8312, 0.6218, 0.3445 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(242, 46, 0) }
```

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

```
.background{ background-color: rgb(242, 46,  
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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