

Converting Colors

$Y_{xy}(20.0250, 0.6159, 0.3167)$

Have a look what the booklet for
Yxy(20.0250, 0.6159, 0.3167)
contains.

Yxy(19.9636, 0.6155, 0.3165)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	27
<i>CSS Examples</i>	30

Color

Yxy(19.9636, 0.6155, 0.3165)

Conversions

Conversions Part 1

Format	Color
Hex	F7002D
RGB	247, 0, 45
RGB Percent	97%, 0%, 18%
CMY	0.0315, 0.9987, 0.8236
CMYK	0.00, 1.00, 0.82, 0.03
HSL	349°, 100%, 48%
HSV	349°, 100%, 97%
XYZ	38.8234, 19.9636, 4.2892
YIQ	78.9830, 132.7670, 66.3590

Conversions

Conversions Part 2

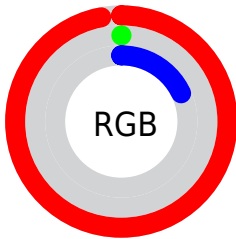
Format	Color
RYB	247, 0, 45
Decimal	16187437
CIELab	51.80, 78.76, 48.84
CIElCh	52, 92.673, 31.803
Yxy	19.9636, 0.6155, 0.3165
Android (android.graphics.Color)	4294377517 (0xFFFF7002D)
YUV	78.9830, -16.7536, 147.3509
Hunter-Lab	44.6806, 76.9089, 25.5848

Details

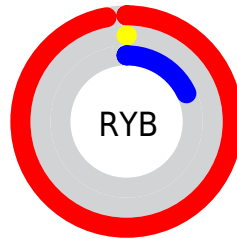
The Yxy color **19.9636, 0.6155, 0.3165** is a dark color, and the websafe version is hex **FF0033**. The color can be described as dark saturated red. A complement of this color would be **70.7828, 0.2413, 0.3886**, and the grayscale version is **7.8652, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.2171, 0.5197, 0.3322**, and **9.8238, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **19.9559, 0.6158, 0.3166**, and if you desaturate by 10%, it is **20.8487, 0.5877, 0.3090**.

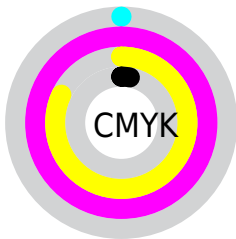
Distribution



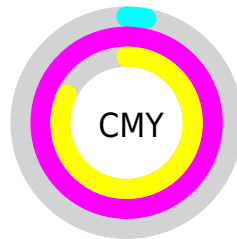
- Red (97%)
- Green (0%)
- Blue (18%)



- Red (97%)
- Yellow (0%)
- Blue (18%)



- Cyan (0%)
- Magenta (100%)
- Yellow (82%)
- Black (3%)




- Cyan (3%)
- Magenta (100%)
- Yellow (82%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 19.9636, 0.6155, 0.3165 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 19.9636, 0.6155, 0.3165 by changing the saturation by 10% instead.


 19.9636, 0.6155,
0.3165


 19.9636, 0.6155,
0.3165


251.7180, 0.4519,
0.3423


 12.3686, 0.6544,
0.3020


 43.3561, 0.5560,
0.3317


 6.9952, 0.7032,
0.2801


 59.9225, 0.5333,
0.3357

 3.4591, 0.7563,
0.2437

 80.2480, 0.5142,
0.3382

 1.3759, 0.8123,
0.1877

 104.7172, 0.4979,
0.3399

 0.1988, 0.9349,
0.0651

 133.7144, 0.4839,
0.3410

 0.0000, 1.0000,
0.0000

 167.6240, 0.4718,

 0.0000, 0.0000,

0.3417

0.0000

206.8304, 0.4612,
0.3421

■ 19.9636, 0.6155,
0.3165

■ 19.9636, 0.6155,
0.3165

■ 19.9559, 0.6158,
0.3166

■ 20.8487, 0.5877,
0.3090

■ 22.6883, 0.5505,
0.3036

■ 25.7549, 0.5083,
0.3016

■ 30.2164, 0.4664,
0.3025

■ 36.2140, 0.4281,
0.3056

■ 43.8719, 0.3951,
0.3099

■ 53.3013, 0.3676,
0.3148

■ 64.6039, 0.3452,
0.3198

■ 77.8734, 0.3271,
0.3246

Harmonies

Analogous

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



19.9636, 0.5193, 0.2392



19.9636, 0.6155, 0.3165



19.9636, 0.5846, 0.4046

Triad

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



19.9636, 0.6155, 0.3165



19.9636, 0.2192, 0.6166



19.9636, 0.1187, 0.1212

Complementary

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



19.9636, 0.6155, 0.3165



70.7828, 0.2413, 0.3886

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.



19.9636, 0.0844, 0.1445



19.9636, 0.6155, 0.3165



19.9636, 0.1224, 0.4040

Square

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



19.9636, 0.6155, 0.3165



19.9636, 0.3462, 0.6305



19.9636, 0.0828, 0.2235



19.9636, 0.1984, 0.1313

Rectangle

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



19.9636, 0.6155, 0.3165



19.9636, 0.5205, 0.4795



19.9636, 0.0828, 0.2235



19.9636, 0.1032, 0.1247

Sweetspot

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



19.9649, 0.6155, 0.3165



57.1217, 0.3681, 0.3147



19.2422, 0.2741, 0.1284



11.2617, 0.3791, 0.3126



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.



19.9649, 0.6155, 0.3165



21.4587, 0.6161, 0.3168



25.2788, 0.5948, 0.3658



16.5315, 0.3265, 0.3247



10.5718, 0.6124, 0.3147



0.9424, 0.5801, 0.2969

Inverse Universe

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



19.9649, 0.6155, 0.3165



21.4587, 0.6161, 0.3168



35.0408, 0.1945, 0.2203



16.5315, 0.3265, 0.3247



10.5718, 0.6124, 0.3147



0.9424, 0.5801, 0.2969

Previews

White Background



This preview shows how the Yxy color 19.9636, 0.6155, 0.3165 looks on a white background.

Color Contrast Check

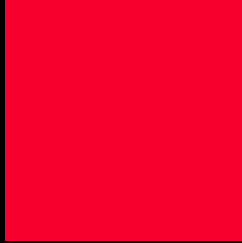
Large Text (above 18pt) WCAG AA ✓ Pass

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 19.9636, 0.6155, 0.3165 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 19.9636, 0.6155, 0.3165

Background



This preview shows how black text looks on a background with the Yxy color 19.9636, 0.6155, 0.3165.



This preview shows how white text looks on a background with the Yxy color 19.9636, 0.6155, 0.3165.

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

19.9636, 0.6155, 0.3165

Protanopia

20.4405, 0.3902, 0.4246

Deuteranopia

20.5246, 0.4629, 0.4556



Tritanopia

20.1666, 0.6347, 0.3343

Trichromacy



Original Color

19.9636, 0.6155, 0.3165



Protanomaly

15.4322, 0.5006, 0.3533



Deuteranomaly

16.2150, 0.5540, 0.3733



Tritanomaly

19.9443, 0.6321, 0.3295

Monochromacy



Original Color

19.9636, 0.6155, 0.3165



Achromatopsia

7.8187, 0.3127, 0.3290



Achromatomaly

8.2619, 0.4724, 0.3010

CSS Examples

Text

The CSS property to change the color of the text to Yxy 19.9636, 0.6155, 0.3165 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(247, 0, 45)` looks like.

```
.text, #text, p{  
  color:rgb(247, 0, 45)  
}
```

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(247, 0, 45) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(247, 0, 45) }
```

Border

The CSS property to change the border of an element to Yxy 19.9636, 0.6155, 0.3165 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(247, 0, 45) }
```

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

```
.border{ border-color:rgb(247, 0, 45) }
```

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

Here you see how a box with a 4 pixel rgb(247, 0, 45) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(247, 0, 45); -webkit-box-  
shadow:4px 4px 4px 4px rgb(247, 0, 45);  
box-shadow:4px 4px 4px 4px rgb(247, 0, 45)  
}
```


Background

The CSS property to change the background color of an element to Yxy 19.9636, 0.6155, 0.3165 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(247, 0, 45) }
```

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

```
.background{ background-color: rgb(247, 0,  
45) }
```

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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