

# Converting Colors

$Y_{xy}(21.0550, 0.6068, 0.3116)$

Have a look what the booklet for  
Yxy(21.0550, 0.6068, 0.3116)  
contains.

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**Color**

**Yxy(20.9713, 0.6066, 0.3115)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FC0037
RGB	252, 0, 55
RGB Percent	99%, 0%, 22%
CMY	0.0117, 1.0000, 0.7842
CMYK	0.00, 1.00, 0.78, 0.01
HSL	347°, 100%, 49%
HSV	347°, 100%, 99%
XYZ	40.8385, 20.9713, 5.5138
YIQ	81.6180, 132.5370, 70.5290

# Conversions

## Conversions Part 2

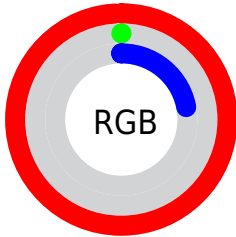
Format	Color
<a href="#">RYB</a>	252, 0, 55
Decimal	16515127
CIELab	52.92, 80.23, 44.83
CIElCh	53, 91.909, 29.194
Yxy	20.9713, 0.6066, 0.3115
Android (android.graphics.Color)	4294705207 (0xFFFC0037)
YUV	81.6180, -13.1227, 149.4250
Hunter-Lab	45.7944, 79.0422, 24.9174

# Details

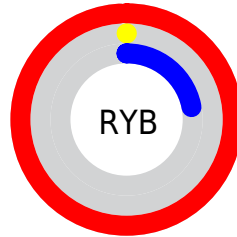
The Yxy color **20.9713, 0.6066, 0.3115** is a dark color, and the websafe version is hex **FF0033**. The color can be described as dark saturated red. A complement of this color would be **73.6586, 0.2450, 0.4020**, and the grayscale version is **8.3655, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.7687, 0.5061, 0.3250**, and **10.4682, 0.6327, 0.3259** is the 20% darker color. If you saturate the color by 10%, you get **20.9738, 0.6066, 0.3115**, and if you desaturate by 10%, it is **21.9059, 0.5776, 0.3030**.

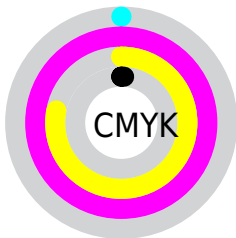
# Distribution



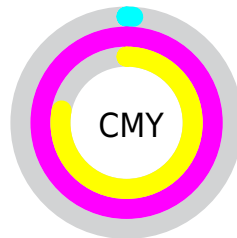
- Red (99%)
- Green (0%)
- Blue (22%)



- Red (99%)
- Yellow (0%)
- Blue (22%)



- Cyan (0%)
- Magenta (100%)
- Yellow (78%)
- Black (1%)




- Cyan (1%)
- Magenta (100%)
- Yellow (78%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 20.9713, 0.6066, 0.3115 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 20.9713, 0.6066, 0.3115 by changing the saturation by 10% instead.





 20.9713, 0.6066,  
0.3115


 20.9713, 0.6066,  
0.3115


257.1259, 0.4473,  
0.3376


 13.1030, 0.6454,  
0.2980


 45.0398, 0.5482,  
0.3261

 7.4995, 0.6924,  
0.2769


 62.0087, 0.5261,  
0.3300

 3.7764, 0.7543,  
0.2457

 82.7801, 0.5076,  
0.3326

 1.5493, 0.8085,  
0.1915

 107.7382, 0.4918,  
0.3345

 0.3230, 0.9088,  
0.0912

 137.2674, 0.4783,  
0.3357

 0.0000, 1.0000,  
0.0000

 171.7522, 0.4666,

 0.0000, 0.0000,

0.3366

0.0000

211.5769, 0.4563,  
0.3372

■ 20.9713, 0.6066,  
0.3115

■ 20.9713, 0.6066,  
0.3115

■ 20.9738, 0.6066,  
0.3115

■ 21.9059, 0.5776,  
0.3030

■ 23.8293, 0.5406,  
0.2972

■ 27.0299, 0.4998,  
0.2953

■ 31.6835, 0.4596,  
0.2967

■ 37.9381, 0.4231,  
0.3006

■ 45.9233, 0.3917,  
0.3059

■ 55.7553, 0.3655,  
0.3117

■ 67.5403, 0.3441,  
0.3178

■ 81.3764, 0.3267,  
0.3236

# Harmonies

## Analogous

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



20.9713, 0.5010, 0.2348



20.9713, 0.6066, 0.3115



20.9713, 0.5867, 0.3970

# Triad

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



20.9713, 0.6066, 0.3115



20.9713, 0.2328, 0.6188



20.9713, 0.1171, 0.1248

# Complementary

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



20.9713, 0.6066, 0.3115



73.6586, 0.2450, 0.4020

# 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.



20.9713, 0.0860, 0.1518



20.9713, 0.6066, 0.3115



20.9713, 0.1323, 0.4225

# Square

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



20.9713, 0.6066, 0.3115



20.9713, 0.3595, 0.6179



20.9713, 0.0877, 0.2373



20.9713, 0.1915, 0.1321



# Rectangle

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



20.9713, 0.6066, 0.3115



20.9713, 0.5288, 0.4697



20.9713, 0.0877, 0.2373



20.9713, 0.1028, 0.1294

# Sweetspot

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



20.9738, 0.6066, 0.3115



57.2496, 0.3656, 0.3117



18.3940, 0.2614, 0.1213



11.2911, 0.3760, 0.3092



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.



20.9738, 0.6066, 0.3115



21.5424, 0.6067, 0.3116



24.7362, 0.6071, 0.3561



17.2873, 0.3259, 0.3238



10.9420, 0.6028, 0.3094



1.0285, 0.5706, 0.2917



# Inverse Universe

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



20.9738, 0.6066, 0.3115



21.5424, 0.6067, 0.3116



41.6470, 0.1995, 0.2382



17.2873, 0.3259, 0.3238



10.9420, 0.6028, 0.3094



1.0285, 0.5706, 0.2917



# Previews

## White Background



This preview shows how the Yxy color 20.9713, 0.6066, 0.3115 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 20.9713, 0.6066, 0.3115 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 20.9713, 0.6066, 0.3115**

## Background



This preview shows how black text looks on a background with the Yxy color 20.9713, 0.6066, 0.3115.



This preview shows how white text looks on a background with the Yxy color 20.9713, 0.6066, 0.3115.

# 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

20.9713, 0.6066, 0.3115

### Protanopia

21.5674, 0.3765, 0.4067

### Deuteranopia

21.2883, 0.4539, 0.4456



## Tritanopia

21.1417, 0.6321, 0.3329

# Trichromacy



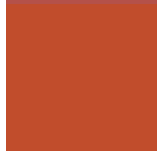
## Original Color

20.9713, 0.6066, 0.3115



## Protanomaly

16.0692, 0.4863, 0.3402



## Deuteranomaly

16.8271, 0.5429, 0.3639



## Tritanomaly

20.9255, 0.6275, 0.3271

# Monochromacy



## Original Color

20.9713, 0.6066, 0.3115



## Achromatopsia

8.4376, 0.3127, 0.3290



## Achromatomaly

8.8532, 0.4655, 0.2965

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 20.9713, 0.6066, 0.3115 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(252, 0, 55)` looks like.

```
.text, #text, p{  
    color:rgb(252, 0, 55)  
}
```

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(252, 0, 55) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(252, 0, 55) }
```

## Border

The CSS property to change the border of an element to Yxy 20.9713, 0.6066, 0.3115 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(252, 0, 55) }
```

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

```
.border{ border-color:rgb(252, 0, 55) }
```

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

Here you see how a box with a 4 pixel rgb(252, 0, 55) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(252, 0, 55); -webkit-box-  
shadow:4px 4px 4px 4px rgb(252, 0, 55);  
box-shadow:4px 4px 4px 4px rgb(252, 0, 55)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 20.9713, 0.6066, 0.3115 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(252, 0, 55) }
```

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

```
.background{ background-color: rgb(252, 0,  
55) }
```

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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