

# Converting Colors

$Y_{xy}(13.8427, 0.6163, 0.3172)$

Have a look what the booklet for  
Yxy(13.8427, 0.6163, 0.3172)  
contains.

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**Color**

**Yxy(13.8507, 0.6160, 0.3171)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D20124
RGB	210, 1, 36
RGB Percent	82%, 0%, 14%
CMY	0.1765, 0.9958, 0.8589
CMYK	0.00, 0.99, 0.83, 0.18
HSL	350°, 99%, 41%
HSV	350°, 99%, 82%
XYZ	26.9064, 13.8507, 2.9221
YIQ	67.4810, 113.3290, 55.1930

# Conversions

## Conversions Part 2

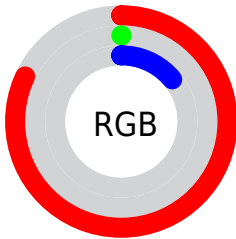
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	210, 1, 36
Decimal	13762852
CIE <sub>Lab</sub>	44.02, 69.61, 43.60
CIE <sub>LCh</sub>	44, 82.133, 32.063
Yxy	13.8507, 0.6160, 0.3171
Android (android.graphics.Color)	4291952932 (0xFFD20124)
YUV	67.4810, -15.5201, 124.9892
Hunter-Lab	37.2165, 63.9212, 21.3963

# Details

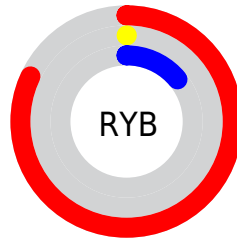
The Yxy color **13.8507, 0.6160, 0.3171** is a dark color, and the websafe version is hex **CC0033**. The color can be described as dark washed red. A complement of this color would be **49.1970, 0.2398, 0.3829**, and the grayscale version is **5.7118, 0.3127, 0.3290**.

A 20% lighter version of the original color is **28.6856, 0.5372, 0.3338**, and **6.1110, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **13.8227, 0.6172, 0.3174**, and if you desaturate by 10%, it is **14.5391, 0.5875, 0.3104**.

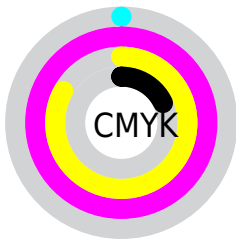
# Distribution



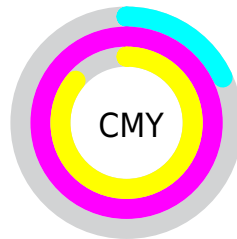
- Red (82%)
- Green (0%)
- Blue (14%)



- Red (82%)
- Yellow (0%)
- Blue (14%)



- Cyan (0%)
- Magenta (99%)
- Yellow (83%)
- Black (18%)




- Cyan (18%)
- Magenta (100%)
- Yellow (86%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 13.8507, 0.6160, 0.3171 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 13.8507, 0.6160, 0.3171 by changing the saturation by 10% instead.





 13.8507, 0.6160,  
0.3171


 13.8507, 0.6160,  
0.3171


216.3000, 0.4427,  
0.3428


 8.0169, 0.6604,  
0.3001


 32.8239, 0.5503,  
0.3335


 4.1058, 0.7244,  
0.2756

 46.7321, 0.5260,  
0.3374

 1.7329, 0.7757,  
0.2243

 64.1005, 0.5059,  
0.3398

 0.4448, 0.8662,  
0.1338

 85.3135, 0.4891,  
0.3412

 0.0000, 1.0000,  
0.0000

 110.7556, 0.4748,  
0.3421

 0.0000, 0.0000,  
0.0000

 140.8111, 0.4626,


0.3425

 175.8645, 0.4520,  
0.3427

 13.8507, 0.6160,  
0.3171


 13.8507, 0.6160,  
0.3171


 13.8227, 0.6172,  
0.3174

 14.5391, 0.5875,  
0.3104

 15.8888, 0.5498,  
0.3057

 18.0886, 0.5074,  
0.3039

 21.2496, 0.4653,  
0.3049

 25.4659, 0.4271,  
0.3078

■ 30.8204, 0.3943,  
0.3117

■ 37.3877, 0.3669,  
0.3162

■ 45.2361, 0.3446,  
0.3207

■ 54.4287, 0.3266,  
0.3251

# Harmonies

## Analogous

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



13.8507, 0.5209, 0.2398



13.8507, 0.6160, 0.3171



13.8507, 0.5863, 0.4069

# Triad

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



13.8507, 0.6160, 0.3171



13.8507, 0.2180, 0.6158



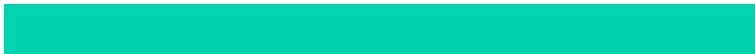
13.8507, 0.1190, 0.1210

# Complementary

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



13.8507, 0.6160, 0.3171



49.1970, 0.2398, 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.



13.8507, 0.0844, 0.1439



13.8507, 0.6160, 0.3171



13.8507, 0.1216, 0.4020

# Square

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



13.8507, 0.6160, 0.3171



13.8507, 0.3462, 0.6337



13.8507, 0.0825, 0.2223



13.8507, 0.1992, 0.1314



# Rectangle

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



13.8507, 0.6160, 0.3171



13.8507, 0.5195, 0.4805



13.8507, 0.0825, 0.2223



13.8507, 0.1034, 0.1245

# Sweetspot

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



13.8516, 0.6160, 0.3171



57.0739, 0.3690, 0.3158



13.4124, 0.2748, 0.1289



11.2507, 0.3802, 0.3139



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.



13.8516, 0.6160, 0.3171



21.4314, 0.6193, 0.3185



17.7458, 0.5922, 0.3674



11.8400, 0.3265, 0.3251



8.4422, 0.6143, 0.3158



0.4822, 0.5668, 0.2896



# Inverse Universe

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



13.8516, 0.6160, 0.3171



21.4314, 0.6193, 0.3185



24.5575, 0.1950, 0.2218



11.8400, 0.3265, 0.3251



8.4422, 0.6143, 0.3158



0.4822, 0.5668, 0.2896



# Previews

## White Background



This preview shows how the Yxy color 13.8507, 0.6160, 0.3171 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

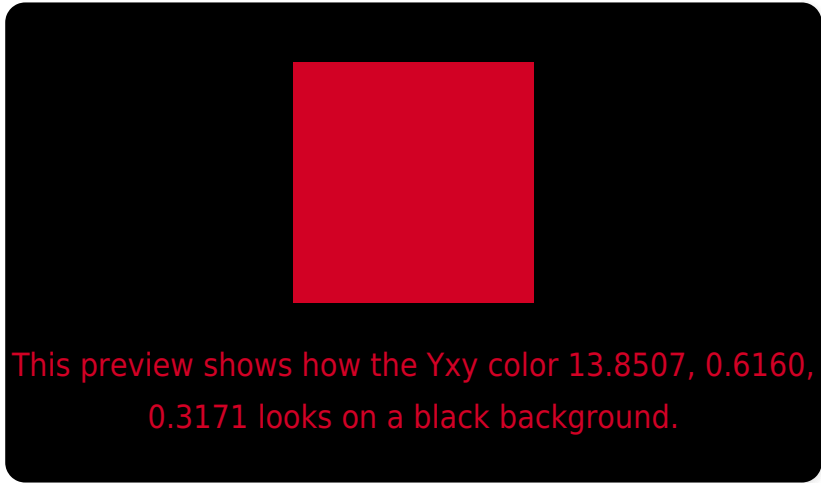
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black 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

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 13.8507, 0.6160, 0.3171**

## **Background**



This preview shows how black text looks on a background with the Yxy color 13.8507, 0.6160, 0.3171.



This preview shows how white text looks on a background with the Yxy color 13.8507, 0.6160, 0.3171.

# 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

13.8507, 0.6160, 0.3171

### Protanopia

14.3854, 0.3941, 0.4286

### Deuteranopia

14.4102, 0.4634, 0.4582



## Tritanopia

14.0211, 0.6338, 0.3350

# Trichromacy



## Original Color

13.8507, 0.6160, 0.3171

## Protanomaly

10.9353, 0.5040, 0.3582

## Deuteranomaly

11.5238, 0.5536, 0.3765

## Tritanomaly

13.8473, 0.6309, 0.3297

# Monochromacy



## Original Color

13.8507, 0.6160, 0.3171

## Achromatopsia

5.7805, 0.3127, 0.3290

## Achromatomaly

6.0800, 0.4713, 0.3061

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 13.8507, 0.6160, 0.3171 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(210, 1, 36)` looks like.

```
.text, #text, p{  
    color:rgb(210, 1, 36)  
}
```

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(210, 1, 36) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(210, 1, 36) }
```

## Border

The CSS property to change the border of an element to Yxy 13.8507, 0.6160, 0.3171 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(210, 1, 36) }
```

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

```
.border{ border-color:rgb(210, 1, 36) }
```

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

Here you see how a box with a 4 pixel `rgb(210, 1, 36)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(210, 1, 36); -webkit-box-  
shadow:4px 4px 4px 4px rgb(210, 1, 36);  
box-shadow:4px 4px 4px 4px rgb(210, 1, 36)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 13.8507, 0.6160, 0.3171 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(210, 1, 36) }
```

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

```
.background{ background-color: rgb(210, 1,  
36) }
```

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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