

# Converting Colors

$Y_{xy}(100.0000, 0.4454, 0.5013)$

Have a look what the booklet for  
Yxy(100.0000, 0.4454, 0.5013)  
contains.

<b>Yxy(92.7800, 0.4193, 0.5053)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	22
<b><i>Color Blindness Simulation</i></b> .....	25
<b><i>CSS Examples</i></b> .....	28

**Color**

**Yxy(92.7800, 0.4193, 0.5053)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFFF00
RGB	255, 255, 0
RGB Percent	100%, 100%, 0%
CMY	0.0001, 0.0000, 1.0000
CMYK	0.00, 0.00, 1.00, 0.00
HSL	60°, 100%, 50%
HSV	60°, 100%, 100%
XYZ	76.9892, 92.7800, 13.8445
YIQ	225.9300, 81.8550, -79.3050

# Conversions

## Conversions Part 2

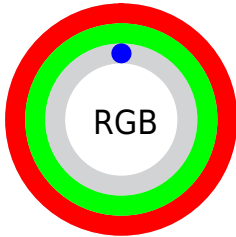
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 255, 0
Decimal	16776960
CIELab	97.14, -21.58, 94.50
CIELCh	97, 96.928, 102.863
Yxy	92.7800, 0.4193, 0.5053
Android (android.graphics.Color)	4294967040 (0xFFFFFFFF00)
YUV	225.9300, -111.3835, 25.4944
Hunter-Lab	96.3224, -25.8914, 58.9039

# Details

The Yxy color **92.7800, 0.4193, 0.5053** is a light color, and the websafe version is hex **FFFF00**, and the color name is **yellow**. The color can be described as light saturated yellow. A complement of this color would be **7.2202, 0.1500, 0.0600**, and the grayscale version is **76.7684, 0.3127, 0.3290**.

A 20% lighter version of the original color is **93.6245, 0.4002, 0.4736**, and **52.1843, 0.4141, 0.5094** is the 20% darker color. If you saturate the color by 10%, you get **92.7730, 0.4193, 0.5053**, and if you desaturate by 10%, it is **92.8461, 0.4175, 0.5024**.

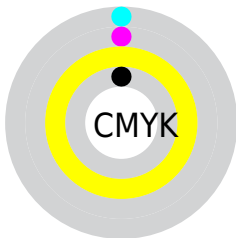
# Distribution



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



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



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




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

# Brightness & Saturation Gradients

These gradients show how the Yxy color 92.7800, 0.4193, 0.5053 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 92.7800, 0.4193, 0.5053 by changing the saturation by 10% instead.





 92.7800, 0.4193,  
0.5053

 92.7800, 0.4193,  
0.5053


537.0332, 0.3825,  
0.4337

 70.2887, 0.4240,  
0.5179

 151.1940, 0.4095,  
0.4833

 51.7619, 0.4281,  
0.5316


 187.8854, 0.4048,  
0.4739


 36.8153, 0.4306,  
0.5459


 230.0790, 0.4004,  
0.4654

 25.0645, 0.4318,  
0.5619

 278.1592, 0.3963,  
0.4578

 16.1251, 0.4259,  
0.5741

 332.5103, 0.3924,  
0.4509

 9.6128, 0.4140,  
0.5860


 393.5167, 0.3889,


 5.1430, 0.3963,

0.4446


0.6037

461.5629, 0.3855,  
0.4389


 2.3314, 0.3677,  
0.6323


 0.7902, 0.2211,  
0.7789


 92.7800, 0.4193,  
0.5053


 92.7800, 0.4193,  
0.5053


 92.7730, 0.4193,  
0.5053


 92.8461, 0.4175,  
0.5024


 93.0134, 0.4136,  
0.4958

 93.3039, 0.4070,  
0.4849

 93.7351, 0.3977,  
0.4696

 94.3219, 0.3862,  
0.4505

 95.0771, 0.3728,  
0.4284

 96.0124, 0.3582,  
0.4042

 97.1382, 0.3430,  
0.3790

 98.4644, 0.3277,  
0.3537

# Harmonies

## Analogous

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



92.7800, 0.4934, 0.4376



92.7800, 0.4193, 0.5053



92.7800, 0.3245, 0.5278

# Triad

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



92.7800, 0.4193, 0.5053



92.7800, 0.1411, 0.2380



92.7800, 0.3775, 0.2357

# Complementary

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



92.7800, 0.4193, 0.5053



7.2202, 0.1500, 0.0600

# 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.



92.7800, 0.2697, 0.1940



92.7800, 0.4193, 0.5053



92.7800, 0.1500, 0.1892

# Square

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



92.7800, 0.4193, 0.5053



92.7800, 0.1666, 0.3345



92.7800, 0.1918, 0.1772



92.7800, 0.4780, 0.2956



# Rectangle

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



92.7800, 0.4193, 0.5053



92.7800, 0.2606, 0.4917



92.7800, 0.1918, 0.1772



92.7800, 0.3398, 0.2193

# Sweetspot

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



92.7730, 0.4193, 0.5053



96.0124, 0.3582, 0.4042



21.2600, 0.6401, 0.3300



20.4613, 0.3645, 0.4146



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.



92.7730, 0.4193, 0.5053



76.0705, 0.3353, 0.5720



21.0907, 0.3269, 0.3525



48.4759, 0.4193, 0.5053



4.7200, 0.4193, 0.5053

# Inverse Universe

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



7.2202, 0.1500, 0.0600



11.7705, 0.2004, 0.0878



17.3779, 0.2978, 0.3044



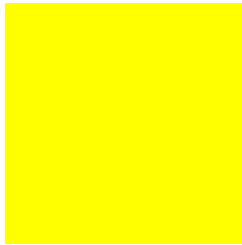
3.7728, 0.1500, 0.0600



0.3674, 0.1500, 0.0600

# Previews

## White Background



This preview shows how the Yxy color 92.7800, 0.4193, 0.5053 looks on a white background.

## Color Contrast Check

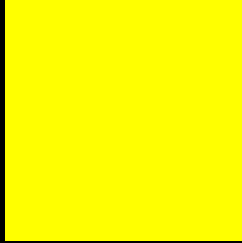
Large Text (above 18pt) WCAG AA × Fail

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 92.7800, 0.4193, 0.5053 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 ✓ Pass

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

**Yxy 92.7800, 0.4193, 0.5053**

## **Background**



This preview shows how black text looks on a background with the Yxy color 92.7800, 0.4193, 0.5053.



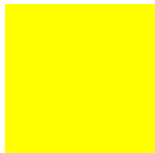
This preview shows how white text looks on a background with the Yxy color 92.7800, 0.4193, 0.5053.



# 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



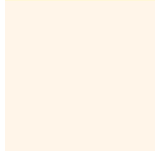
### Original Color

92.7800, 0.4193, 0.5053



### Protanopia

92.7394, 0.3369, 0.3596



### Deuteranopia

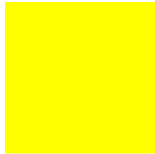
92.4480, 0.3266, 0.3407



## Tritanopia

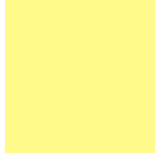
92.8009, 0.3168, 0.3242

# Trichromacy



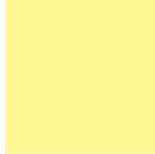
## Original Color

92.7800, 0.4193, 0.5053



## Protanomaly

91.4374, 0.3834, 0.4386



## Deuteranomaly

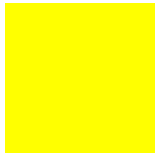
91.1495, 0.3778, 0.4280



## Tritanomaly

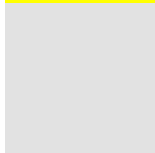
90.8634, 0.3724, 0.4178

# Monochromacy



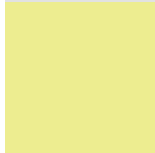
## Original Color

92.7800, 0.4193, 0.5053



## Achromatopsia

76.0525, 0.3127, 0.3290



## Achromatomaly

80.5865, 0.3715, 0.4262

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 92.7800, 0.4193, 0.5053 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, 255, 0)` looks like.

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

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

## Border

The CSS property to change the border of an element to Yxy 92.7800, 0.4193, 0.5053 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, 255, 0) }
```

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

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

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

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

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

# Background

The CSS property to change the background color of an element to Yxy 92.7800, 0.4193, 0.5053 is called "background". The background property can be set on classes, ids or directly on the HTML element.

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

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

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

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**



**Follow me  
on Twitter!**

@ConvertingColor