

# Converting Colors

$Y_{xy}(20.0257, 0.3024, 0.5981)$

Have a look what the booklet for  
Yxy(20.0257, 0.3024, 0.5981)  
contains.

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**Color**

**Yxy(20.0247, 0.3024, 0.5981)**

# Conversions

## Conversions Part 1

Format	Color
Hex	0C9000
RGB	12, 144, 0
RGB Percent	5%, 56%, 0%
CMY	0.9531, 0.4353, 1.0000
CMYK	0.92, 0.00, 1.00, 0.44
HSL	115°, 100%, 28%
HSV	115°, 100%, 56%
XYZ	10.1245, 20.0247, 3.3313
YIQ	88.1160, -32.4480, -72.7680

# Conversions

## Conversions Part 2

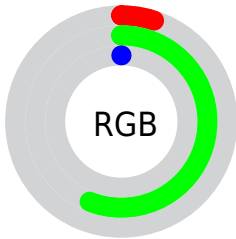
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">0, 144, 132</a>
Decimal	<a href="#">823296</a>
CIELab	<a href="#">51.87, -55.50, 54.46</a>
CIELCh	<a href="#">52, 77.757, 135.546</a>
Yxy	<a href="#">20.0247, 0.3024, 0.5981</a>
Android (android.graphics.Color)	<a href="#">4279013376 (0xFF0C9000)</a>
YUV	<a href="#">88.1160, -43.4412, -66.7537</a>
Hunter-Lab	<a href="#">44.7490, -37.9248, 26.9105</a>

# Details

The Yxy color **20.0247, 0.3024, 0.5981** is a dark color, and the websafe version is hex **009900**. A complement of this color would be **6.9225, 0.3005, 0.1429**, and the grayscale version is **9.8860, 0.3127, 0.3290**.

A 20% lighter version of the original color is **43.4379, 0.3147, 0.5322**, and **7.6543, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **20.0255, 0.3024, 0.5981**, and if you desaturate by 10%, it is **20.1893, 0.3039, 0.5865**.

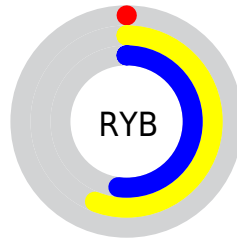
# Distribution



Red (5%)

Green (56%)

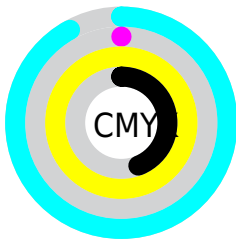
Blue (0%)



Red (0%)

Yellow (56%)

Blue (52%)

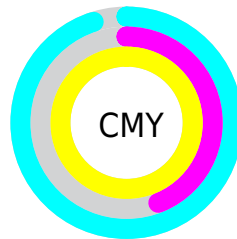


Cyan (92%)

Magenta (0%)

Yellow (100%)

Black (44%)



Cyan (95%)

Magenta (44%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 20.0247, 0.3024, 0.5981 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 20.0247, 0.3024, 0.5981 by changing the saturation by 10% instead.





 20.0247, 0.3024,  
0.5981


 20.0247, 0.3024,  
0.5981


252.0488, 0.3210,  
0.4360


 12.4130, 0.2884,  
0.6457


 43.4586, 0.3148,  
0.5328


 7.0256, 0.2698,  
0.7267


 60.0496, 0.3175,  
0.5100


 3.4781, 0.2146,  
0.7854

 80.4024, 0.3191,  
0.4916

 1.3861, 0.0000,  
1.0000

 104.9016, 0.3201,  
0.4764


 0.2065, 0.0000,  
1.0000

 133.9314, 0.3206,  
0.4638


 0.0000, 0.0000,  
0.0000


 167.8763, 0.3209,


0.4531


 207.1206, 0.3210,  
0.4439


 20.0247, 0.3024,  
0.5981


 20.0247, 0.3024,  
0.5981

 20.0255, 0.3024,  
0.5981

 20.1893, 0.3039,  
0.5865

 20.4546, 0.3059,  
0.5685

 20.8425, 0.3079,  
0.5434

 21.3655, 0.3095,  
0.5129

 22.0347, 0.3109,  
0.4795

■ 22.8599, 0.3118,  
0.4454

■ 23.8501, 0.3124,  
0.4124

■ 25.0137, 0.3127,  
0.3817

■ 26.3583, 0.3128,  
0.3538

# Harmonies

## Analogous

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



20.0247, 0.4202, 0.5518



20.0247, 0.3024, 0.5981



20.0247, 0.1926, 0.4948

# Triad

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



20.0247, 0.3024, 0.5981



20.0247, 0.1171, 0.1514



20.0247, 0.5400, 0.2867

# Complementary

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



20.0247, 0.3024, 0.5981



6.9225, 0.3005, 0.1429

# 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.



20.0247, 0.4094, 0.2167



20.0247, 0.3024, 0.5981



20.0247, 0.1676, 0.1434

# Square

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



20.0247, 0.3024, 0.5981



20.0247, 0.1024, 0.1999



20.0247, 0.2656, 0.1659



20.0247, 0.5780, 0.3644



# Rectangle

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



20.0247, 0.3024, 0.5981



20.0247, 0.1405, 0.3717



20.0247, 0.2656, 0.1659



20.0247, 0.5039, 0.2622

# Sweetspot

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



20.0255, 0.3024, 0.5981



41.9473, 0.3124, 0.4144



22.4331, 0.4344, 0.4933



9.4617, 0.3122, 0.4267



72.9347, 0.3127, 0.3290



11.2805, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



20.0255, 0.3024, 0.5981



35.2866, 0.3018, 0.5985



20.2739, 0.2789, 0.5241



6.0495, 0.3128, 0.3516



17.4426, 0.3026, 0.5980



0.1702, 0.3146, 0.5884



# Inverse Universe

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



6.9225, 0.3005, 0.1429



12.1741, 0.3001, 0.1427



6.5698, 0.4575, 0.2294



5.4886, 0.3125, 0.3072



6.0327, 0.3007, 0.1430

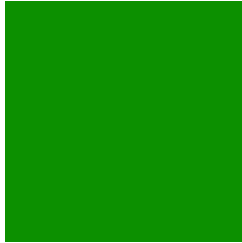


0.0620, 0.3114, 0.1489



# Previews

## White Background



This preview shows how the Yxy color 20.0247, 0.3024, 0.5981 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

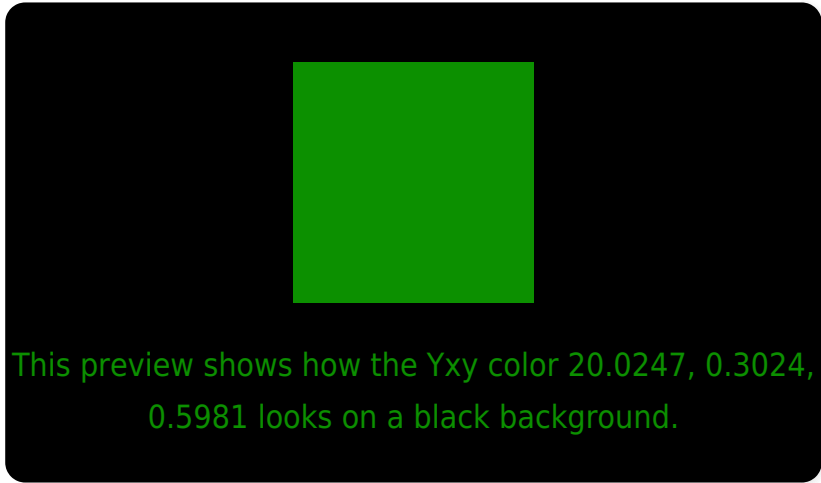
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

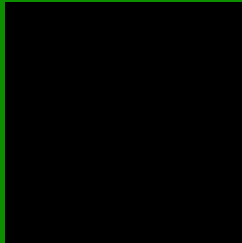
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 20.0247, 0.3024, 0.5981**

## **Background**



This preview shows how black text looks on a background with the Yxy color 20.0247, 0.3024, 0.5981.



This preview shows how white text looks on a background with the Yxy color 20.0247, 0.3024, 0.5981.

# 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

20.0247, 0.3024, 0.5981

### Protanopia

19.6549, 0.4406, 0.4884

### Deuteranopia

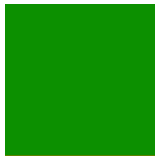
19.7901, 0.4577, 0.4501



## Tritanopia

20.0866, 0.2376, 0.3067

# Trichromacy



## Original Color

20.0247, 0.3024, 0.5981



## Protanomaly

18.5598, 0.3703, 0.5442



## Deuteranomaly

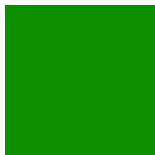
18.1128, 0.3816, 0.5193



## Tritanomaly

19.4633, 0.2687, 0.4351

# Monochromacy



## Original Color

20.0247, 0.3024, 0.5981



## Achromatopsia

9.7587, 0.3127, 0.3290



## Achromatomaly

11.9713, 0.3108, 0.4686

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 20.0247, 0.3024, 0.5981 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(12, 144, 0)` looks like.

```
.text, #text, p{  
    color:rgb(12, 144, 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(12, 144, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(12, 144, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 20.0247, 0.3024, 0.5981 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(12, 144, 0) }
```

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

```
.border{ border-color:rgb(12, 144, 0) }
```

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

Here you see how a box with a 4 pixel rgb(12, 144, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(12, 144, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(12, 144, 0);  
box-shadow:4px 4px 4px 4px rgb(12, 144, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 20.0247, 0.3024, 0.5981 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(12, 144, 0) }
```

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

```
.background{ background-color: rgb(12, 144,  
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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