

Converting Colors

$Y_{xy}(2.3985, 0.2212, 0.3164)$

Have a look what the booklet for
Yxy(2.3985, 0.2212, 0.3164)
contains.

Yxy(2.4356, 0.2218, 0.3186)	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

$Y_{xy}(2.4356, 0.2218, 0.3186)$

Conversions

Conversions Part 1

Format	Color
Hex	003133
RGB	0, 49, 51
RGB Percent	0%, 19%, 20%
CMY	1.0000, 0.8078, 0.8000
CMYK	1.00, 0.04, 0.00, 0.80
HSL	182°, 100%, 10%
HSV	182°, 100%, 20%
XYZ	1.6956, 2.4356, 3.5135
YIQ	34.5770, -29.8460, -9.7660

Conversions

Conversions Part 2

Format	Color
RYB	0, 25, 51
Decimal	12595
CIELab	17.62, -14.29, -5.70
CIELCh	18, 15.383, 201.747
Yxy	2.4356, 0.2218, 0.3186
Android (android.graphics.Color)	4278202675 (0xFF003133)
YUV	34.5770, 8.0965, -30.3240
Hunter-Lab	15.6064, -7.9177, -2.4236

Details

The Yxy color **2.4356, 0.2218, 0.3186** is a dark color, and the websafe version is hex **003333**. A complement of this color would be **0.7475, 0.6289, 0.3388**, and the grayscale version is **1.6417, 0.3127, 0.3290**.

A 20% lighter version of the original color is **9.8044, 0.2546, 0.3234**, and **0.0088, 0.1500, 0.0600** is the 20% darker color. If you saturate the color by 10%, you get **2.4359, 0.2218, 0.3186**, and if you desaturate by 10%, it is **2.4856, 0.2275, 0.3198**.

Distribution



- Red (0%)
- Green (19%)
- Blue (20%)



- Red (0%)
- Yellow (10%)
- Blue (20%)



- Cyan (100%)
- Magenta (4%)
- Yellow (0%)
- Black (80%)





- Cyan (100%)
- Magenta (81%)
- Yellow (80%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 2.4356, 0.2218, 0.3186 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 2.4356, 0.2218, 0.3186 by changing the saturation by 10% instead.

 2.4356, 0.2218,
0.3186

 2.4356, 0.2218,
0.3186


 121.0439, 0.2868,
0.3274


 0.8441, 0.1705,
0.3173

 9.8792, 0.2542,
0.3239

 0.0000, 0.0000,
0.0000

 16.5008, 0.2631,
0.3250


 25.5681, 0.2696,
0.3257


 37.4655, 0.2747,
0.3263


 52.5774, 0.2787,
0.3267


 71.2882, 0.2819,

0.3270


 93.9822, 0.2846,
0.3272


 2.4356, 0.2218,
0.3186


 2.4356, 0.2218,
0.3186


 2.4359, 0.2218,
0.3186

 2.4856, 0.2275,
0.3198

 2.5354, 0.2330,
0.3209

 2.5907, 0.2391,
0.3220

 2.6566, 0.2465,
0.3231

 2.7338, 0.2552,
0.3242

■ 2.8231, 0.2650,
0.3252

■ 2.9249, 0.2759,
0.3263

■ 3.0399, 0.2875,
0.3272

■ 3.1685, 0.2999,
0.3281

Harmonies

Analogous

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



2.4356, 0.2571, 0.3773



2.4356, 0.2218, 0.3186



2.4356, 0.2097, 0.2705

Triad

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



2.4356, 0.2218, 0.3186



2.4356, 0.3077, 0.2547



2.4356, 0.4091, 0.4113

Complementary

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



2.4356, 0.2218, 0.3186



0.7475, 0.6289, 0.3388

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.



2.4356, 0.4276, 0.3717



2.4356, 0.2218, 0.3186



2.4356, 0.3664, 0.2857

Square

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



2.4356, 0.2218, 0.3186



2.4356, 0.2555, 0.2395



2.4356, 0.4120, 0.3270



2.4356, 0.3650, 0.4332

Rectangle

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



2.4356, 0.2218, 0.3186



2.4356, 0.2149, 0.2503



2.4356, 0.4120, 0.3270



2.4356, 0.4187, 0.3993

Sweetspot

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



2.4359, 0.2218, 0.3186



4.8277, 0.2741, 0.3261



2.3720, 0.2977, 0.5916



1.3425, 0.2733, 0.3260



35.4692, 0.3127, 0.3290



1.5325, 0.3127, 0.3290

Same Dimension

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



2.4359, 0.2218, 0.3186



4.0293, 0.2217, 0.3181



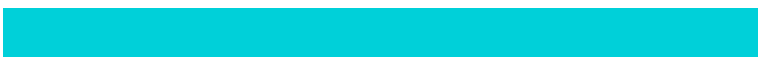
0.8843, 0.1819, 0.1748



0.9664, 0.3021, 0.3283



7.3400, 0.2216, 0.3176



50.2216, 0.2213, 0.3166

Inverse Universe

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



0.9258, 0.3294, 0.1588



1.5354, 0.3298, 0.1591



1.4972, 0.5100, 0.4333



0.8958, 0.3139, 0.3130



2.8040, 0.3303, 0.1593



19.2789, 0.3311, 0.1598

Previews

White Background



This preview shows how the Yxy color 2.4356, 0.2218, 0.3186 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 ✓ Pass

Black Background



This preview shows how the Yxy color 2.4356, 0.2218, 0.3186 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

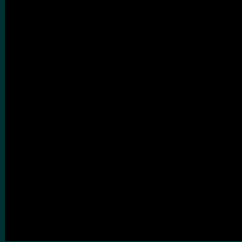
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

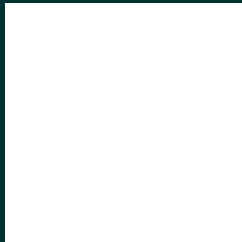
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 2.4356, 0.2218, 0.3186

Background



This preview shows how black text looks on a background with the Yxy color 2.4356, 0.2218, 0.3186.



This preview shows how white text looks on a background with the Yxy color 2.4356, 0.2218, 0.3186.

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

2.4356, 0.2218, 0.3186

Protanopia

2.5502, 0.3023, 0.3117

Deuteranopia

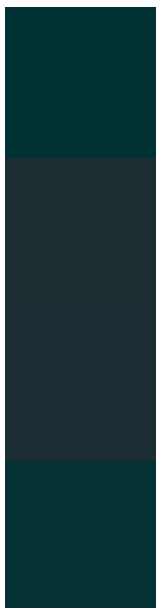
2.5112, 0.2921, 0.2908



Tritanopia

2.4988, 0.2263, 0.3092

Trichromacy



Original Color

2.4356, 0.2218, 0.3186

Protanomaly

2.4226, 0.2611, 0.3146

Deuteranomaly

2.3716, 0.2544, 0.2962

Tritanomaly

2.4704, 0.2246, 0.3139

Monochromacy



Original Color

2.4356, 0.2218, 0.3186

Achromatopsia

1.6807, 0.3127, 0.3290

Achromatomaly

1.8483, 0.2607, 0.3234

CSS Examples

Text

The CSS property to change the color of the text to Yxy 2.4356, 0.2218, 0.3186 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 $rgb(0, 49, 51)$ looks like.

```
.text, #text, p{  
    color:rgb(0, 49, 51)  
}
```

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(0, 49, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 49, 51) }
```

Border

The CSS property to change the border of an element to Yxy 2.4356, 0.2218, 0.3186 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(0, 49, 51) }
```

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

```
.border{ border-color:rgb(0, 49, 51) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 49, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 49, 51); -webkit-box-shadow:4px  
4px 4px 4px rgb(0, 49, 51); box-shadow:4px  
4px 4px 4px rgb(0, 49, 51) }
```


Background

The CSS property to change the background color of an element to Yxy 2.4356, 0.2218, 0.3186 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 49, 51) }
```

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

```
.background{ background-color: rgb(0, 49,  
51) }
```

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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