

Converting Colors

$Y_{xy}(12.8767, 0.2331, 0.2970)$

Have a look what the booklet for
Yxy(12.8767, 0.2331, 0.2970)
contains.

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Color

Yxy(12.9468, 0.2335, 0.2978)

Conversions

Conversions Part 1

Format	Color
Hex	2F6D7A
RGB	47, 109, 122
RGB Percent	18%, 43%, 48%
CMY	0.8160, 0.5725, 0.5216
CMYK	0.62, 0.11, 0.00, 0.52
HSL	190°, 44%, 33%
HSV	190°, 62%, 48%
XYZ	10.1514, 12.9468, 20.3766
YIQ	91.9440, -41.1250, -9.1010

Conversions

Conversions Part 2

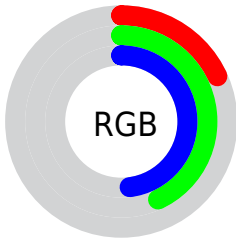
Format	Color
R _Y B	47, 81, 122
Decimal	3108218
CIE Lab	42.68, -15.72, -13.22
CIE LCh	43, 20.538, 220.072
Yxy	12.9468, 0.2335, 0.2978
Android (android.graphics.Color)	4281298298 (0xFF2F6D7A)
YUV	91.9440, 14.8176, -39.4159
Hunter-Lab	35.9817, -12.6084, -8.3891




Details

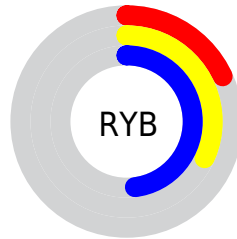
The Yxy color **12.9468, 0.2335, 0.2978** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **7.5660, 0.4760, 0.3548**, and the grayscale version is **10.6576, 0.3127, 0.3290**.




A 20% lighter version of the original color is **31.3124, 0.2530, 0.3076**, and **3.8185, 0.2115, 0.2812** is the 20% darker color. If you saturate the color by 10%, you get **12.2521, 0.2250, 0.2919**, and if you desaturate by 10%, it is **13.7344, 0.2436, 0.3036**.

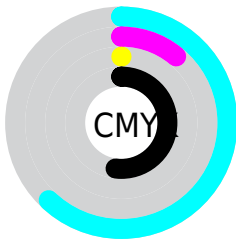
Distribution







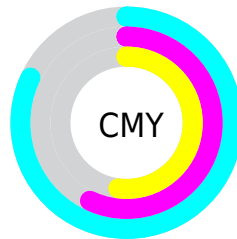
-  Red (18%)
-  Green (43%)
-  Blue (48%)






-  Red (18%)
-  Yellow (32%)
-  Blue (48%)



-  Cyan (62%)
-  Magenta (11%)
-  Yellow (0%)
-  Black (52%)





-  Cyan (82%)
-  Magenta (57%)
-  Yellow (52%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.9468, 0.2335, 0.2978 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 12.9468, 0.2335, 0.2978 by changing the saturation by 10% instead.


 12.9468, 0.2335,
0.2978


 12.9468, 0.2335,
0.2978


 210.5764, 0.2802,
0.3176


 7.3919, 0.2187,
0.2906


 31.2082, 0.2526,
0.3064


 3.7084, 0.1973,
0.2794

 44.6835, 0.2591,
0.3092


 1.5118, 0.1643,
0.2598

 61.5677, 0.2643,
0.3113

 0.2970, 0.0000,
0.1888

 82.2452, 0.2686,
0.3131

 0.0000, 0.0000,
0.0000

 107.1005, 0.2722,
0.3145

 136.5178, 0.2753,

0.3157

170.8817, 0.2779,
0.3167

■ 12.9468, 0.2335,
0.2978

■ 12.9468, 0.2335,
0.2978

■ 12.2521, 0.2250,
0.2919

■ 13.7344, 0.2436,
0.3036

■ 11.6417, 0.2182,
0.2859

■ 14.6196, 0.2552,
0.3092

■ 11.1080, 0.2132,
0.2799

■ 15.6086, 0.2679,
0.3145

■ 10.6908, 0.2097,
0.2749

■ 16.7064, 0.2816,
0.3195

■ 17.9181, 0.2958,
0.3241

■ 19.2479, 0.3105,
0.3284

■ 20.7002, 0.3252,
0.3323

■ 22.2790, 0.3399,
0.3357

■ 23.9880, 0.3544,
0.3388

Harmonies

Analogous

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



12.9468, 0.2510, 0.3391



12.9468, 0.2335, 0.2978



12.9468, 0.2354, 0.2694

Triad

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



12.9468, 0.2335, 0.2978



12.9468, 0.3371, 0.2844



12.9468, 0.3689, 0.4051

Complementary

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



12.9468, 0.2335, 0.2978



7.5660, 0.4760, 0.3548

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.



12.9468, 0.3955, 0.3834



12.9468, 0.2335, 0.2978



12.9468, 0.3772, 0.3151

Square

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



12.9468, 0.2335, 0.2978



12.9468, 0.2925, 0.2641



12.9468, 0.3990, 0.3504



12.9468, 0.3282, 0.4056

Rectangle

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



12.9468, 0.2335, 0.2978



12.9468, 0.2472, 0.2600



12.9468, 0.3990, 0.3504



12.9468, 0.3799, 0.3998

Sweetspot

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



12.9473, 0.2335, 0.2978



30.0294, 0.2859, 0.3210



14.8426, 0.2941, 0.4888



6.7528, 0.2825, 0.3198



62.0916, 0.3127, 0.3290



7.8288, 0.3127, 0.3290

Same Dimension

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



12.9473, 0.2335, 0.2978



21.0804, 0.2219, 0.2893



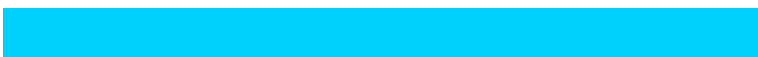
6.6368, 0.2123, 0.2014



4.4001, 0.2994, 0.3252



11.2449, 0.2097, 0.2747



52.5403, 0.2088, 0.2717

Inverse Universe

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



7.2696, 0.3438, 0.2118



10.7032, 0.3530, 0.1938



12.8878, 0.4243, 0.4268



4.0662, 0.3161, 0.3115



5.3420, 0.3684, 0.1803



25.3712, 0.3713, 0.1819

Previews

White Background



This preview shows how the Yxy color 12.9468, 0.2335, 0.2978 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



This preview shows how the Yxy color 12.9468, 0.2335, 0.2978 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

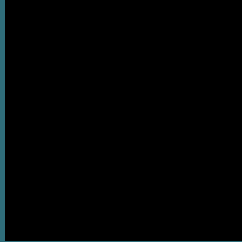
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.9468, 0.2335, 0.2978

Background



This preview shows how black text looks on a background with the Yxy color 12.9468, 0.2335, 0.2978.

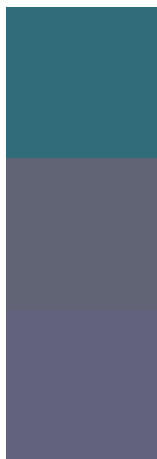


This preview shows how white text looks on a background with the Yxy color 12.9468, 0.2335, 0.2978.

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

12.9468, 0.2335, 0.2978

Protanopia

12.9167, 0.2879, 0.2942

Deuteranopia

12.7873, 0.2794, 0.2739



Tritanopia

13.0178, 0.2360, 0.3094

Trichromacy



Original Color

12.9468, 0.2335, 0.2978

Protanomaly

12.6708, 0.2638, 0.2946

Deuteranomaly

12.5951, 0.2584, 0.2817

Tritanomaly

13.0646, 0.2358, 0.3071

Monochromacy



Original Color

12.9468, 0.2335, 0.2978

Achromatopsia

10.7023, 0.3127, 0.3290

Achromatomaly

11.2511, 0.2757, 0.3166

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.9468, 0.2335, 0.2978 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(47, 109, 122)` looks like.

```
.text, #text, p{  
    color:rgb(47, 109, 122)  
}
```

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(47, 109, 122) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(47, 109, 122) }
```

Border

The CSS property to change the border of an element to Yxy 12.9468, 0.2335, 0.2978 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(47, 109, 122) }
```

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

```
.border{ border-color:rgb(47, 109, 122) }
```

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

Here you see how a box with a 4 pixel `rgb(47, 109, 122)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(47, 109, 122); -webkit-box-  
shadow:4px 4px 4px 4px rgb(47, 109, 122);  
box-shadow:4px 4px 4px 4px rgb(47, 109,  
122) }
```


Background

The CSS property to change the background color of an element to Yxy 12.9468, 0.2335, 0.2978 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(47, 109, 122) }
```

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

```
.background{ background-color: rgb(47, 109,  
122) }
```

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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