

Converting Colors

$Y_{xy}(13.2828, 0.2349, 0.3072)$

Have a look what the booklet for
Yxy(13.2828, 0.2349, 0.3072)
contains.

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Color

$Y_{xy}(13.2828, 0.2349, 0.3072)$

Conversions

Conversions Part 1

Format	Color
Hex	2D6F78
RGB	45, 111, 120
RGB Percent	18%, 44%, 47%
CMY	0.8235, 0.5647, 0.5294
CMYK	0.63, 0.08, 0.00, 0.53
HSL	187°, 45%, 32%
HSV	187°, 63%, 47%
XYZ	10.1567, 13.2828, 19.7988
YIQ	92.2920, -42.2250, -11.1930

Conversions

Conversions Part 2

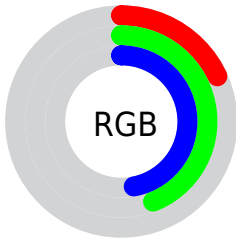
Format	Color
RYB	45, 80, 120
Decimal	2977656
CIELab	43.19, -17.84, -11.26
CIElCh	43, 21.101, 212.256
Yxy	13.2828, 0.2349, 0.3072
Android (android.graphics.Color)	4281167736 (0xFF2D6F78)
YUV	92.2920, 13.6600, -41.4751
Hunter-Lab	36.4456, -14.0353, -6.6970




Details

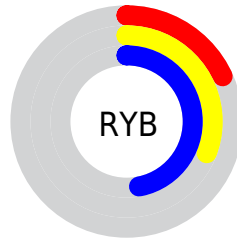
The Yxy color **13.2828, 0.2349, 0.3072** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **6.8209, 0.4853, 0.3470**, and the grayscale version is **10.7485, 0.3127, 0.3290**.




A 20% lighter version of the original color is **31.8256, 0.2535, 0.3141**, and **4.0229, 0.2148, 0.2932** is the 20% darker color. If you saturate the color by 10%, you get **12.7370, 0.2272, 0.3032**, and if you desaturate by 10%, it is **13.9121, 0.2442, 0.3111**.

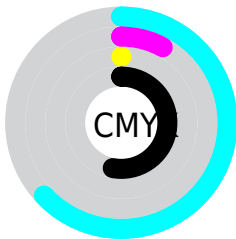
Distribution







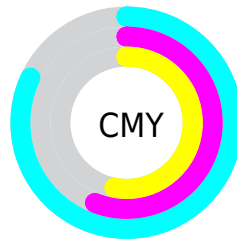
-  Red (18%)
-  Green (44%)
-  Blue (47%)






-  Red (18%)
-  Yellow (31%)
-  Blue (47%)



-  Cyan (63%)
-  Magenta (8%)
-  Yellow (0%)
-  Black (53%)





-  Cyan (82%)
-  Magenta (56%)
-  Yellow (53%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 13.2828, 0.2349, 0.3072 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 13.2828, 0.2349, 0.3072 by changing the saturation by 10% instead.


 13.2828, 0.2349,
0.3072


 13.2828, 0.2349,
0.3072


212.7222, 0.2807,
0.3214


 7.6236, 0.2204,
0.3019


 31.8109, 0.2536,
0.3135


 3.8550, 0.1995,
0.2933

 45.4486, 0.2600,
0.3154


 1.5928, 0.1670,
0.2781

 62.5146, 0.2651,
0.3170

 0.3527, 0.0000,
0.2292

 83.3932, 0.2693,
0.3182

 0.0000, 0.0000,
0.0000

 108.4689, 0.2729,
0.3192

 138.1260, 0.2759,

0.3201

172.7490, 0.2785,
0.3208

■ 13.2828, 0.2349,
0.3072

■ 13.2828, 0.2349,
0.3072

■ 12.7370, 0.2272,
0.3032

■ 13.9121, 0.2442,
0.3111

■ 12.2664, 0.2213,
0.2992

■ 14.6294, 0.2551,
0.3150

■ 11.8633, 0.2172,
0.2952

■ 15.4406, 0.2673,
0.3186

■ 11.5824, 0.2145,
0.2922

■ 16.3506, 0.2805,
0.3221

■ 17.3640, 0.2945,
0.3253

■ 18.4852, 0.3090,
0.3283

■ 19.7182, 0.3238,
0.3310

■ 21.0668, 0.3387,
0.3335

■ 22.5346, 0.3535,
0.3357

Harmonies

Analogous

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



13.2828, 0.2575, 0.3510



13.2828, 0.2349, 0.3072



13.2828, 0.2316, 0.2742

Triad

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



13.2828, 0.2349, 0.3072



13.2828, 0.3255, 0.2771



13.2828, 0.3788, 0.4024

Complementary

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



13.2828, 0.2349, 0.3072



6.8209, 0.4853, 0.3470

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.



13.2828, 0.4005, 0.3762



13.2828, 0.2349, 0.3072



13.2828, 0.3690, 0.3059

Square

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



13.2828, 0.2349, 0.3072



13.2828, 0.2812, 0.2599



13.2828, 0.3972, 0.3412



13.2828, 0.3399, 0.4095

Rectangle

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



13.2828, 0.2349, 0.3072



13.2828, 0.2404, 0.2615



13.2828, 0.3972, 0.3412



13.2828, 0.3884, 0.3953

Sweetspot

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



13.2833, 0.2349, 0.3072



29.2779, 0.2847, 0.3231



14.2556, 0.2970, 0.5006



6.8425, 0.2814, 0.3223



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.



13.2833, 0.2349, 0.3072



22.0264, 0.2245, 0.3015



6.7781, 0.2131, 0.2092



4.4343, 0.2994, 0.3264



12.6215, 0.2145, 0.2920



59.3808, 0.2139, 0.2899

Inverse Universe

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



7.0176, 0.3363, 0.2043



10.4062, 0.3427, 0.1858



11.7079, 0.4310, 0.4211



4.0696, 0.3153, 0.3104



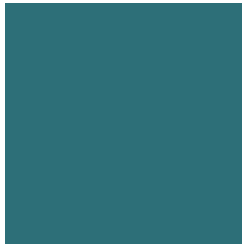
5.4810, 0.3525, 0.1716



26.0617, 0.3544, 0.1726

Previews

White Background



This preview shows how the Yxy color 13.2828, 0.2349, 0.3072 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 13.2828, 0.2349, 0.3072 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

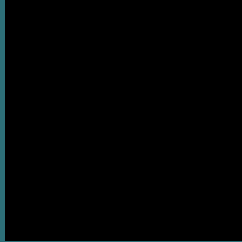
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 13.2828, 0.2349, 0.3072

Background



This preview shows how black text looks on a background with the Yxy color 13.2828, 0.2349, 0.3072.



This preview shows how white text looks on a background with the Yxy color 13.2828, 0.2349, 0.3072.

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

13.2828, 0.2349, 0.3072

Protanopia

13.2089, 0.2957, 0.3030

Deuteranopia

13.1204, 0.2846, 0.2786



Tritanopia

13.2828, 0.2349, 0.3072

Trichromacy



Original Color

13.2828, 0.2349, 0.3072

Protanomaly

13.0696, 0.2676, 0.3038

Deuteranomaly

12.8550, 0.2619, 0.2864

Tritanomaly

13.2828, 0.2349, 0.3072

Monochromacy



Original Color

13.2828, 0.2349, 0.3072

Achromatopsia

10.7023, 0.3127, 0.3290

Achromatomaly

11.3788, 0.2758, 0.3215

CSS Examples

Text

The CSS property to change the color of the text to Yxy 13.2828, 0.2349, 0.3072 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(45, 111, 120)` looks like.

```
.text, #text, p{  
    color:rgb(45, 111, 120)  
}
```

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(45, 111, 120) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 111, 120) }
```

Border

The CSS property to change the border of an element to Yxy 13.2828, 0.2349, 0.3072 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(45, 111, 120) }
```

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

```
.border{ border-color:rgb(45, 111, 120) }
```

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

Here you see how a box with a 4 pixel `rgb(45, 111, 120)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 111, 120); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 111, 120);  
box-shadow:4px 4px 4px 4px rgb(45, 111,  
120) }
```


Background

The CSS property to change the background color of an element to Yxy 13.2828, 0.2349, 0.3072 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 111, 120) }
```

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

```
.background{ background-color: rgb(45, 111,  
120) }
```

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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