

Converting Colors

$Y_{xy}(13.1017, 0.2434, 0.2493)$

Have a look what the booklet for
Yxy(13.1017, 0.2434, 0.2493)
contains.

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Color

Yxy(13.1017, 0.2434, 0.2493)

Conversions

Conversions Part 1

Format	Color
Hex	50668C
RGB	80, 102, 140
RGB Percent	31%, 40%, 55%
CMY	0.6863, 0.6000, 0.4510
CMYK	0.43, 0.27, 0.00, 0.45
HSL	218°, 27%, 43%
HSV	218°, 43%, 55%
XYZ	12.7916, 13.1017, 26.6606
YIQ	99.7540, -25.3100, 7.1540

Conversions

Conversions Part 2

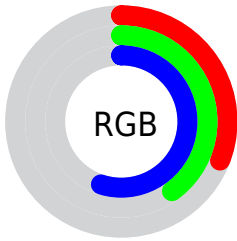
Format	Color
R_{YB}	80, 96, 140
Decimal	5269132
CIE _{Lab}	42.92, 2.28, -23.54
CIE _{LCh}	43, 23.653, 275.539
Yxy	13.1017, 0.2434, 0.2493
Android (android.graphics.Color)	4283459212 (0xFF50668C)
YUV	99.7540, 19.8413, -17.3243
Hunter-Lab	36.1963, -0.2622, -18.3331

Details

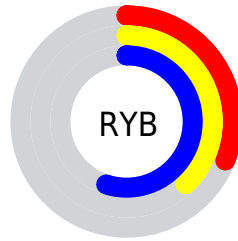
The Yxy color **13.1017, 0.2434, 0.2493** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **19.1030, 0.3893, 0.3969**, and the grayscale version is **12.6312, 0.3127, 0.3290**.

A 20% lighter version of the original color is **31.5830, 0.2603, 0.2682**, and **3.7318, 0.2107, 0.2115** is the 20% darker color. If you saturate the color by 10%, you get **10.9053, 0.2265, 0.2265**, and if you desaturate by 10%, it is **15.6123, 0.2605, 0.2708**.

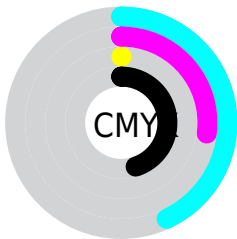
Distribution



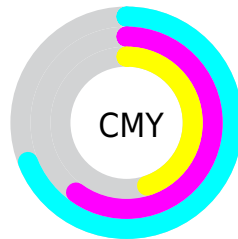
- Red (31%)
- Green (40%)
- Blue (55%)



- Red (31%)
- Yellow (38%)
- Blue (55%)



- Cyan (43%)
- Magenta (27%)
- Yellow (0%)
- Black (45%)



- Cyan (69%)
- Magenta (60%)
- Yellow (45%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 13.1017, 0.2434, 0.2493 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 13.1017, 0.2434, 0.2493 by changing the saturation by 10% instead.

■ 13.1017, 0.2434,
0.2493

■ 13.1017, 0.2434,
0.2493

■ 211.5684, 0.2844,
0.2961

■ 7.4986, 0.2304,
0.2347

■ 31.4864, 0.2602,
0.2683

■ 3.7758, 0.2118,
0.2140

■ 45.0367, 0.2659,
0.2748

■ 1.5490, 0.1832,
0.1825

■ 62.0050, 0.2705,
0.2801

■ 0.3228, 0.1171,
0.1043

■ 82.7756, 0.2743,
0.2844

■ 0.0000, 0.0000,
0.0000

■ 107.7328, 0.2774,
0.2880

137.2611, 0.2801,

0.2911

171.7448, 0.2824,
0.2938

■ 13.1017, 0.2434,
0.2493

■ 13.1017, 0.2434,
0.2493

■ 10.9053, 0.2265,
0.2265

■ 15.6123, 0.2605,
0.2708

■ 9.0077, 0.2104,
0.2029

■ 18.4485, 0.2772,
0.2906

■ 7.3947, 0.1957,
0.1791

■ 21.6227, 0.2933,
0.3086

■ 6.0495, 0.1830,
0.1562

■ 25.1464, 0.3085,
0.3247

■ 4.9535, 0.1730,
0.1348

■ 29.0303, 0.3228,
0.3391

■ 4.2934, 0.1669,
0.1208

■ 33.2849, 0.3359,
0.3517

■ 37.9200, 0.3480,
0.3629

■ 42.9452, 0.3591,
0.3726

■ 48.3696, 0.3693,
0.3812

Harmonies

Analogous

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



13.1017, 0.2233, 0.2643



13.1017, 0.2434, 0.2493



13.1017, 0.2822, 0.2534

Triad

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



13.1017, 0.2434, 0.2493



13.1017, 0.4099, 0.3464



13.1017, 0.2878, 0.3950

Complementary

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



13.1017, 0.2434, 0.2493



19.1030, 0.3893, 0.3969

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.



13.1017, 0.3374, 0.4194



13.1017, 0.2434, 0.2493



13.1017, 0.4099, 0.3850

Square

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



13.1017, 0.2434, 0.2493



13.1017, 0.3807, 0.3070



13.1017, 0.3825, 0.4134



13.1017, 0.2470, 0.3480

Rectangle

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



13.1017, 0.2434, 0.2493



13.1017, 0.3152, 0.2656



13.1017, 0.3825, 0.4134



13.1017, 0.3040, 0.4064

Sweetspot

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



13.1022, 0.2434, 0.2493



37.8855, 0.2927, 0.3079



21.7416, 0.2749, 0.3760



8.4623, 0.2895, 0.3044



71.0566, 0.3127, 0.3290



10.6539, 0.3127, 0.3290

Same Dimension

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



13.1022, 0.2434, 0.2493



19.5148, 0.2278, 0.2283



9.6544, 0.2440, 0.2043



5.1733, 0.2991, 0.3148



3.8508, 0.1671, 0.1217



0.0518, 0.1900, 0.2040

Inverse Universe

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



12.2695, 0.3789, 0.2891



18.3472, 0.4008, 0.2810



24.3171, 0.3659, 0.4341



5.0770, 0.3227, 0.3210



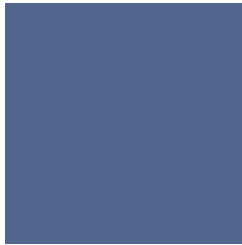
5.1730, 0.5443, 0.2772



0.0370, 0.4408, 0.2202

Previews

White Background



This preview shows how the Yxy color 13.1017, 0.2434, 0.2493 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 13.1017, 0.2434, 0.2493 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

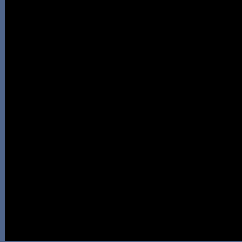
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

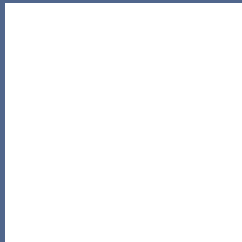
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 13.1017, 0.2434, 0.2493

Background



This preview shows how black text looks on a background with the Yxy color 13.1017, 0.2434, 0.2493.

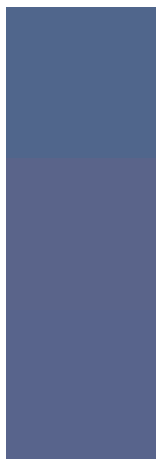


This preview shows how white text looks on a background with the Yxy color 13.1017, 0.2434, 0.2493.

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

13.1017, 0.2434, 0.2493

Protanopia

13.1230, 0.2552, 0.2506

Deuteranopia

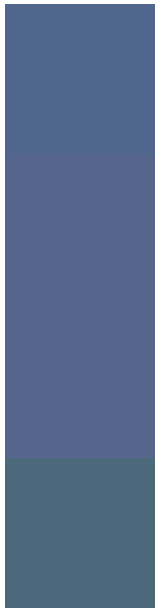
13.0825, 0.2511, 0.2467



Tritanopia

13.1697, 0.2615, 0.3103

Trichromacy



Original Color

13.1017, 0.2434, 0.2493

Protanomaly

13.1499, 0.2502, 0.2501

Deuteranomaly

13.1321, 0.2482, 0.2482

Tritanomaly

13.0949, 0.2551, 0.2863

Monochromacy



Original Color

13.1017, 0.2434, 0.2493

Achromatopsia

12.7438, 0.3127, 0.3290

Achromatomaly

12.8723, 0.2839, 0.2980

CSS Examples

Text

The CSS property to change the color of the text to Yxy 13.1017, 0.2434, 0.2493 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(80, 102, 140)` looks like.

```
.text, #text, p{  
    color:rgb(80, 102, 140)  
}
```

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(80, 102, 140) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(80, 102, 140) }
```

Border

The CSS property to change the border of an element to Yxy 13.1017, 0.2434, 0.2493 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(80, 102, 140) }
```

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

```
.border{ border-color:rgb(80, 102, 140) }
```

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

Here you see how a box with a 4 pixel rgb(80, 102, 140) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(80, 102, 140); -webkit-box-  
shadow:4px 4px 4px 4px rgb(80, 102, 140);  
box-shadow:4px 4px 4px 4px rgb(80, 102,  
140) }
```


Background

The CSS property to change the background color of an element to Yxy 13.1017, 0.2434, 0.2493 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(80, 102, 140) }
```

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

```
.background{ background-color: rgb(80, 102,  
140) }
```

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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