

Converting Colors

$Y_{xy}(12.9852, 0.2690, 0.3512)$

Have a look what the booklet for
Yxy(12.9852, 0.2690, 0.3512)
contains.

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Color

Yxy(12.9812, 0.2691, 0.3511)

Conversions

Conversions Part 1

Format	Color
Hex	416D64
RGB	65, 109, 100
RGB Percent	25%, 43%, 39%
CMY	0.7451, 0.5725, 0.6078
CMYK	0.40, 0.00, 0.08, 0.57
HSL	168°, 25%, 34%
HSV	168°, 40%, 43%
XYZ	9.9494, 12.9812, 14.0423
YIQ	94.8180, -23.3350, -12.1270

Conversions

Conversions Part 2

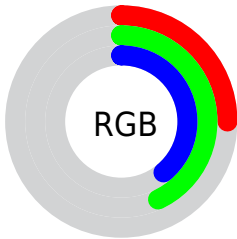
Format	Color
RYB	65, 90, 109
Decimal	4287844
CIELab	42.73, -17.52, 0.22
CIELCh	43, 17.525, 179.280
Yxy	12.9812, 0.2691, 0.3511
Android (android.graphics.Color)	4282477924 (0xFF416D64)
YUV	94.8180, 2.5547, -26.1504
Hunter-Lab	36.0294, -13.7593, 2.1126

Details

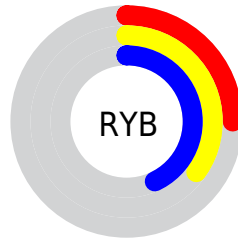
The Yxy color **12.9812, 0.2691, 0.3511** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **7.5259, 0.3867, 0.3086**, and the grayscale version is **11.3963, 0.3127, 0.3290**.

A 20% lighter version of the original color is **31.3689, 0.2799, 0.3456**, and **3.7047, 0.2480, 0.3639** is the 20% darker color. If you saturate the color by 10%, you get **12.6024, 0.2608, 0.3576**, and if you desaturate by 10%, it is **13.4340, 0.2787, 0.3450**.

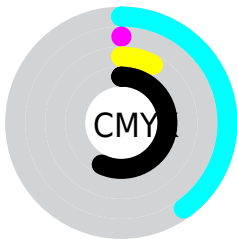
Distribution



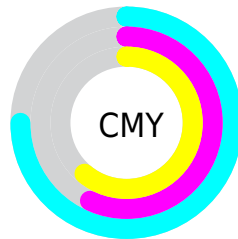
- Red (25%)
- Green (43%)
- Blue (39%)



- Red (25%)
- Yellow (35%)
- Blue (43%)



- Cyan (40%)
- Magenta (0%)
- Yellow (8%)
- Black (57%)



- Cyan (75%)
- Magenta (57%)
- Yellow (61%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 12.9812, 0.2691, 0.3511 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 12.9812, 0.2691, 0.3511 by changing the saturation by 10% instead.

12.9812, 0.2691,
0.3511

12.9812, 0.2691,
0.3511

210.7971, 0.2954,
0.3378

7.4156, 0.2603,
0.3556

31.2700, 0.2801,
0.3455

3.7233, 0.2470,
0.3624

44.7620, 0.2838,
0.3437

1.5200, 0.2248,
0.3737

61.6649, 0.2867,
0.3422

0.3028, 0.0000,
0.4907

82.3632, 0.2891,
0.3410

0.0000, 0.0000,
0.0000

107.2411, 0.2911,
0.3400

136.6832, 0.2927,

0.3391

171.0737, 0.2942,
0.3384

■ 12.9812, 0.2691,
0.3511

■ 12.9812, 0.2691,
0.3511

■ 12.6024, 0.2608,
0.3576

■ 13.4340, 0.2787,
0.3450

■ 12.2920, 0.2538,
0.3643

■ 13.9631, 0.2892,
0.3393

■ 12.0458, 0.2486,
0.3713


■ 14.5726, 0.3005,
0.3340


■ 11.8587, 0.2450,
0.3783


■ 15.2657, 0.3123,
0.3292


■ 11.7247, 0.2432,
0.3854

■ 16.0457, 0.3243,
0.3248

 11.6215, 0.2423,
0.3922

 16.9155, 0.3365,
0.3209

 17.8780, 0.3486,
0.3174

 18.9359, 0.3604,
0.3143

 20.0917, 0.3720,
0.3116

Harmonies

Analogous

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



12.9812, 0.3023, 0.3823



12.9812, 0.2691, 0.3511



12.9812, 0.2481, 0.3147

Triad

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



12.9812, 0.2691, 0.3511



12.9812, 0.2831, 0.2695



12.9812, 0.3869, 0.3668

Complementary

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



12.9812, 0.2691, 0.3511



7.5259, 0.3867, 0.3086

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.



12.9812, 0.3818, 0.3369



12.9812, 0.2691, 0.3511



12.9812, 0.3198, 0.2829

Square

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



12.9812, 0.2691, 0.3511



12.9812, 0.2558, 0.2699



12.9812, 0.3566, 0.3070



12.9812, 0.3710, 0.3893

Rectangle

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



12.9812, 0.2691, 0.3511



12.9812, 0.2431, 0.2938



12.9812, 0.3566, 0.3070



12.9812, 0.3877, 0.3572

Sweetspot

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



12.9817, 0.2691, 0.3511



25.8680, 0.2982, 0.3350



12.7962, 0.3196, 0.4403



5.9966, 0.2972, 0.3354



57.0482, 0.3127, 0.3290



6.3724, 0.3127, 0.3290

Same Dimension

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



12.9817, 0.2691, 0.3511



22.6308, 0.2616, 0.3569



10.6914, 0.2554, 0.2977



3.4818, 0.3022, 0.3333



13.5892, 0.2424, 0.3928



69.1162, 0.2436, 0.3968

Inverse Universe

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



7.5259, 0.3867, 0.3086



11.4623, 0.4122, 0.3043



9.0061, 0.3952, 0.3578



3.1260, 0.3244, 0.3248



3.8684, 0.5975, 0.3065



19.6066, 0.6100, 0.3134

Previews

White Background



This preview shows how the Yxy color 12.9812, 0.2691, 0.3511 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 12.9812, 0.2691, 0.3511 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

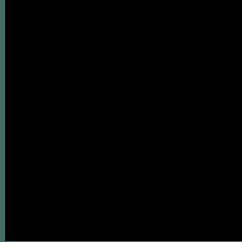
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

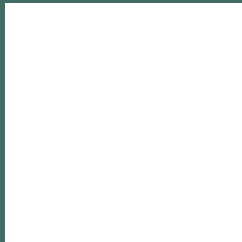
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 12.9812, 0.2691, 0.3511

Background



This preview shows how black text looks on a background with the Yxy color 12.9812, 0.2691, 0.3511.



This preview shows how white text looks on a background with the Yxy color 12.9812, 0.2691, 0.3511.

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

12.9812, 0.2691, 0.3511

Protanopia

12.8836, 0.3256, 0.3401

Deuteranopia

12.7599, 0.3238, 0.3183



Tritanopia

13.0184, 0.2574, 0.3101

Trichromacy



Original Color

12.9812, 0.2691, 0.3511

Protanomaly

12.7372, 0.3022, 0.3430

Deuteranomaly

12.5741, 0.3013, 0.3290

Tritanomaly

13.0799, 0.2617, 0.3241

Monochromacy



Original Color

12.9812, 0.2691, 0.3511

Achromatopsia

11.4435, 0.3127, 0.3290

Achromatomaly

11.8622, 0.2939, 0.3362

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.9812, 0.2691, 0.3511 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(65, 109, 100)` looks like.

```
.text, #text, p{  
    color:rgb(65, 109, 100)  
}
```

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(65, 109, 100) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(65, 109, 100) }
```

Border

The CSS property to change the border of an element to Yxy 12.9812, 0.2691, 0.3511 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(65, 109, 100) }
```

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

```
.border{ border-color:rgb(65, 109, 100) }
```

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

Here you see how a box with a 4 pixel `rgb(65, 109, 100)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(65, 109, 100); -webkit-box-  
shadow:4px 4px 4px 4px rgb(65, 109, 100);  
box-shadow:4px 4px 4px 4px rgb(65, 109,  
100) }
```


Background

The CSS property to change the background color of an element to Yxy 12.9812, 0.2691, 0.3511 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(65, 109, 100) }
```

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

```
.background{ background-color: rgb(65, 109,  
100) }
```

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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