

Converting Colors

$Y_{xy}(18.3122, 0.5922, 0.3305)$

Have a look what the booklet for
Yxy(18.3122, 0.5922, 0.3305)
contains.

Yxy(18.3122, 0.5922, 0.3305)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(18.3122, 0.5922, 0.3305)

Conversions

Conversions Part 1

Format	Color
Hex	E22E2D
RGB	226, 46, 45
RGB Percent	89%, 18%, 18%
CMY	0.1138, 0.8195, 0.8237
CMYK	0.00, 0.80, 0.80, 0.11
HSL	0°, 76%, 53%
HSV	0°, 80%, 89%
XYZ	32.8124, 18.3122, 4.2830
YIQ	99.7060, 107.6010, 37.8490

Conversions

Conversions Part 2

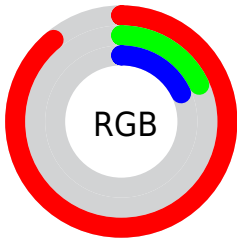
Format	Color
RYB	226, 46, 45
Decimal	14822957
CIELab	49.87, 66.82, 45.56
CIElCh	50, 80.872, 34.284
Yxy	18.3122, 0.5922, 0.3305
Android (android.graphics.Color)	4293013037 (0xFFE22E2D)
YUV	99.7060, -26.9701, 110.7598
Hunter-Lab	42.7928, 61.9818, 24.0208

Details

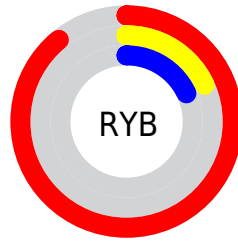
The Yxy color **18.3122, 0.5922, 0.3305** is a dark color, and the websafe version is hex **FF3333**. The color can be described as dark washed red. A complement of this color would be **59.8495, 0.2281, 0.3273**, and the grayscale version is **12.7178, 0.3127, 0.3290**.

A 20% lighter version of the original color is **32.9700, 0.5091, 0.3451**, and **7.6814, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **16.8625, 0.6235, 0.3303**, and if you desaturate by 10%, it is **20.7743, 0.5487, 0.3305**.

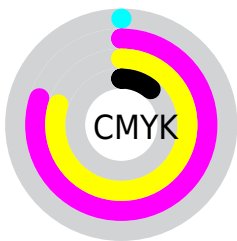
Distribution



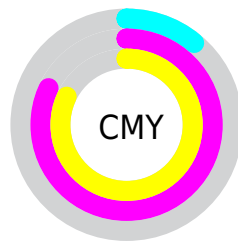
- Red (89%)
- Green (18%)
- Blue (18%)



- Red (89%)
- Yellow (18%)
- Blue (18%)



- Cyan (0%)
- Magenta (80%)
- Yellow (80%)
- Black (11%)





- Cyan (11%)
- Magenta (82%)
- Yellow (82%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 18.3122, 0.5922, 0.3305 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 18.3122, 0.5922, 0.3305 by changing the saturation by 10% instead.


 18.3122, 0.5922,
0.3305


 18.3122, 0.5922,
0.3305


242.6249, 0.4376,
0.3464


 11.1744, 0.6309,
0.3184


 40.5686, 0.5346,
0.3419


 6.1842, 0.6808,
0.2991

 56.4559, 0.5131,
0.3444

 2.9574, 0.7363,
0.2637

 76.0286, 0.4952,
0.3458

 1.1095, 0.7954,
0.2046

 99.6709, 0.4800,
0.3465

 0.0000, 1.0000,
0.0000

 127.7673, 0.4670,
0.3468

 0.0000, 0.0000,
0.0000

 160.7022, 0.4558,

0.3468

198.8599, 0.4461,
0.3467

■ 18.3122, 0.5922,
0.3305

■ 18.3122, 0.5922,
0.3305

■ 16.8625, 0.6235,
0.3303

■ 20.7743, 0.5487,
0.3305


■ 16.1968, 0.6397,
0.3302


■ 24.3842, 0.5007,
0.3304

■ 29.2600, 0.4546,
0.3302


■ 35.5044, 0.4140,
0.3299

■ 43.2096, 0.3801,
0.3297

 52.4598, 0.3526,
0.3294

 63.3325, 0.3305,
0.3292

 75.9005, 0.3129,
0.3290

 90.2319, 0.2988,
0.3288

Harmonies

Analogous

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



18.3122, 0.5112, 0.2540



18.3122, 0.5922, 0.3305



18.3122, 0.5621, 0.4170

Triad

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



18.3122, 0.5922, 0.3305



18.3122, 0.2232, 0.5715



18.3122, 0.1358, 0.1341

Complementary

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



18.3122, 0.5922, 0.3305



59.8495, 0.2281, 0.3273

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.



18.3122, 0.0991, 0.1549



18.3122, 0.5922, 0.3305



18.3122, 0.1331, 0.3816

Square

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



18.3122, 0.5922, 0.3305



18.3122, 0.3433, 0.6103



18.3122, 0.0961, 0.2263



18.3122, 0.2169, 0.1460

Rectangle

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



18.3122, 0.5922, 0.3305



18.3122, 0.5031, 0.4867



18.3122, 0.0961, 0.2263



18.3122, 0.1194, 0.1369

Sweetspot

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



18.3133, 0.5922, 0.3305



63.8034, 0.3630, 0.3295



23.5313, 0.3205, 0.1638



12.7365, 0.3730, 0.3296



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

Same Dimension

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



18.3133, 0.5922, 0.3305



21.5372, 0.6351, 0.3302



33.8168, 0.4993, 0.4162



13.7136, 0.3292, 0.3292



9.2471, 0.6396, 0.3303



0.6457, 0.6382, 0.3314

Inverse Universe

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



59.8495, 0.2281, 0.3273



77.8761, 0.2245, 0.3270



23.5075, 0.1925, 0.1922



15.5576, 0.2982, 0.3288



33.7531, 0.2242, 0.3269



2.3442, 0.2242, 0.3272

Previews

White Background



This preview shows how the Yxy color 18.3122, 0.5922, 0.3305 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 18.3122, 0.5922, 0.3305 looks on a black 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

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

Yxy 18.3122, 0.5922, 0.3305

Background



This preview shows how black text looks on a background with the Yxy color 18.3122, 0.5922, 0.3305.



This preview shows how white text looks on a background with the Yxy color 18.3122, 0.5922, 0.3305.

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

18.3122, 0.5922, 0.3305

Protanopia

18.4006, 0.3935, 0.4282

Deuteranopia

18.3830, 0.4583, 0.4504



Tritanopia

18.3200, 0.5911, 0.3298

Trichromacy



Original Color

18.3122, 0.5922, 0.3305

Protanomaly

16.0668, 0.4790, 0.3788

Deuteranomaly

16.7311, 0.5218, 0.3926

Tritanomaly

18.3200, 0.5911, 0.3298

Monochromacy



Original Color

18.3122, 0.5922, 0.3305

Achromatopsia

12.7438, 0.3127, 0.3290

Achromatomaly

12.4275, 0.4285, 0.3293

CSS Examples

Text

The CSS property to change the color of the text to Yxy 18.3122, 0.5922, 0.3305 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(226, 46, 45)` looks like.

```
.text, #text, p{  
  color:rgb(226, 46, 45)  
}
```

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(226, 46, 45) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(226, 46, 45) }
```

Border

The CSS property to change the border of an element to Yxy 18.3122, 0.5922, 0.3305 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(226, 46, 45) }
```

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

```
.border{ border-color:rgb(226, 46, 45) }
```

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

Here you see how a box with a 4 pixel `rgb(226, 46, 45)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(226, 46, 45); -webkit-box-  
shadow:4px 4px 4px 4px rgb(226, 46, 45);  
box-shadow:4px 4px 4px 4px rgb(226, 46,  
45) }
```


Background

The CSS property to change the background color of an element to Yxy 18.3122, 0.5922, 0.3305 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(226, 46, 45) }
```

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

```
.background{ background-color: rgb(226, 46,  
45) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor