

Converting Colors

$Y_{xy}(15.6463, 0.2156, 0.2497)$

Have a look what the booklet for
Yxy(15.6463, 0.2156, 0.2497)
contains.

Yxy(15.7421, 0.2163, 0.2514)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	27
<i>CSS Examples</i>	30

Color

Yxy(15.7421, 0.2163, 0.2514)

Conversions

Conversions Part 1

Format	Color
Hex	31759B
RGB	49, 117, 155
RGB Percent	19%, 46%, 61%
CMY	0.8078, 0.5412, 0.3922
CMYK	0.68, 0.25, 0.00, 0.39
HSL	202°, 52%, 40%
HSV	202°, 68%, 61%
XYZ	13.5442, 15.7421, 33.3314
YIQ	101.0000, -52.7260, -2.5980

Conversions

Conversions Part 2

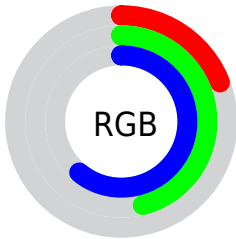
Format	Color
R_{YB}	49, 90, 155
Decimal	3241371
CIE _{Lab}	46.63, -8.81, -26.80
CIE _{LCh}	47, 28.213, 251.795
Yxy	15.7421, 0.2163, 0.2514
Android (android.graphics.Color)	4281431451 (0xFF31759B)
YUV	101.0000, 26.6220, -45.6040
Hunter-Lab	39.6763, -8.4994, -22.0351

Details

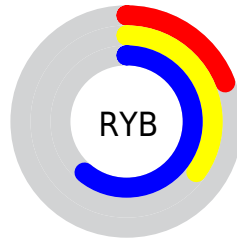
The Yxy color **15.7421, 0.2163, 0.2514** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **14.0078, 0.4832, 0.3872**, and the grayscale version is **12.9555, 0.3127, 0.3290**.

A 20% lighter version of the original color is **36.1549, 0.2374, 0.2692**, and **5.2557, 0.1948, 0.2213** is the 20% darker color. If you saturate the color by 10%, you get **14.1645, 0.2064, 0.2379**, and if you desaturate by 10%, it is **17.5302, 0.2279, 0.2647**.

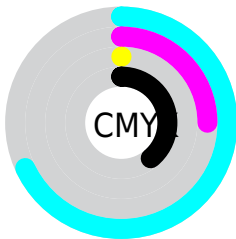
Distribution



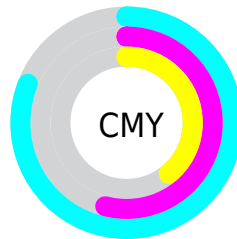
- Red (19%)
- Green (46%)
- Blue (61%)



- Red (19%)
- Yellow (35%)
- Blue (61%)



- Cyan (68%)
- Magenta (25%)
- Yellow (0%)
- Black (39%)



- Cyan (81%)
- Magenta (54%)
- Yellow (39%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 15.7421, 0.2163, 0.2514 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 15.7421, 0.2163, 0.2514 by changing the saturation by 10% instead.

■ 15.7421, 0.2163,
0.2514

■ 15.7421, 0.2163,
0.2514

■ 227.8151, 0.2709,
0.2968

■ 9.3418, 0.2004,
0.2375

■ 36.1499, 0.2378,
0.2697

■ 4.9648, 0.1788,
0.2180

■ 50.9262, 0.2454,
0.2760

■ 2.2266, 0.1481,
0.1892

■ 69.2634, 0.2516,
0.2811

■ 0.7345, 0.0947,
0.1440

■ 91.5457, 0.2567,
0.2854

■ 0.0000, 0.0000,
0.0000

■ 118.1577, 0.2611,
0.2889

■ 149.4836, 0.2648,

0.2919

185.9079, 0.2681,
0.2945

■ 15.7421, 0.2163,
0.2514

■ 15.7421, 0.2163,
0.2514

■ 14.1645, 0.2064,
0.2379

■ 17.5302, 0.2279,
0.2647

■ 12.7802, 0.1985,
0.2243

■ 19.5407, 0.2410,
0.2776

■ 11.5608, 0.1923,
0.2110

■ 21.7863, 0.2550,
0.2899

■ 11.3713, 0.1914,
0.2089

■ 24.2780, 0.2698,
0.3013

■ 27.0259, 0.2850,
0.3119

■ 30.0398, 0.3001,
0.3216

■ 33.3284, 0.3151,
0.3304

■ 36.9004, 0.3297,
0.3382

■ 40.7637, 0.3438,
0.3452

Harmonies

Analogous

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



15.7421, 0.2124, 0.2851



15.7421, 0.2163, 0.2514



15.7421, 0.2429, 0.2399

Triad

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



15.7421, 0.2163, 0.2514



15.7421, 0.3982, 0.3128



15.7421, 0.3279, 0.4285

Complementary

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



15.7421, 0.2163, 0.2514



14.0078, 0.4832, 0.3872

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.



15.7421, 0.3807, 0.4274



15.7421, 0.2163, 0.2514



15.7421, 0.4246, 0.3567

Square

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



15.7421, 0.2163, 0.2514



15.7421, 0.3468, 0.2747



15.7421, 0.4171, 0.3985



15.7421, 0.2737, 0.3940

Rectangle

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



15.7421, 0.2163, 0.2514



15.7421, 0.2720, 0.2437



15.7421, 0.4171, 0.3985



15.7421, 0.3465, 0.4320

Sweetspot

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



15.7427, 0.2163, 0.2514



46.8616, 0.2804, 0.3088



24.7673, 0.2807, 0.4738



10.3202, 0.2765, 0.3061



78.7412, 0.3127, 0.3290



13.2868, 0.3127, 0.3290

Same Dimension

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



15.7427, 0.2163, 0.2514



24.0326, 0.2020, 0.2308



6.7906, 0.1901, 0.1424



6.6538, 0.2989, 0.3208



9.2082, 0.1917, 0.2100



0.2060, 0.2077, 0.2677

Inverse Universe

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



10.4504, 0.3860, 0.2263



15.7175, 0.4097, 0.2165



25.6829, 0.4191, 0.4616



6.2860, 0.3189, 0.3148



6.3349, 0.4342, 0.2165



0.1016, 0.3750, 0.1840

Previews

White Background



This preview shows how the Yxy color 15.7421, 0.2163, 0.2514 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 15.7421, 0.2163, 0.2514 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 15.7421, 0.2163, 0.2514

Background



This preview shows how black text looks on a background with the Yxy color 15.7421, 0.2163, 0.2514.

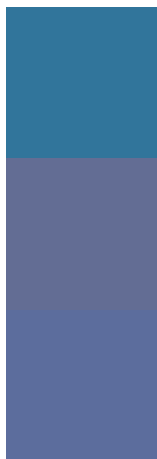


This preview shows how white text looks on a background with the Yxy color 15.7421, 0.2163, 0.2514.

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

15.7421, 0.2163, 0.2514

Protanopia

15.7280, 0.2578, 0.2541

Deuteranopia

15.6469, 0.2431, 0.2382



Tritanopia

15.6535, 0.2267, 0.3061

Trichromacy



Original Color

15.7421, 0.2163, 0.2514

Protanomaly

15.5720, 0.2389, 0.2518

Deuteranomaly

15.5251, 0.2310, 0.2427

Tritanomaly

15.7577, 0.2224, 0.2852

Monochromacy



Original Color

15.7421, 0.2163, 0.2514

Achromatopsia

13.0136, 0.3127, 0.3290

Achromatomaly

13.6897, 0.2652, 0.2978

CSS Examples

Text

The CSS property to change the color of the text to Yxy 15.7421, 0.2163, 0.2514 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(49, 117, 155)` looks like.

```
.text, #text, p{  
    color:rgb(49, 117, 155)  
}
```

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(49, 117, 155) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 117, 155) }
```

Border

The CSS property to change the border of an element to Yxy 15.7421, 0.2163, 0.2514 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(49, 117, 155) }
```

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

```
.border{ border-color:rgb(49, 117, 155) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 117, 155)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 117, 155); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 117, 155);  
box-shadow:4px 4px 4px 4px rgb(49, 117,  
155) }
```


Background

The CSS property to change the background color of an element to Yxy 15.7421, 0.2163, 0.2514 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 117, 155) }
```

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

```
.background{ background-color: rgb(49, 117,  
155) }
```

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