

Converting Colors

$Y_{xy}(12.4533, 0.1995, 0.2022)$

Have a look what the booklet for
Yxy(12.4533, 0.1995, 0.2022)
contains.

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Color

Yxy(12.4799, 0.1996, 0.2024)

Conversions

Conversions Part 1

Format	Color
Hex	2A65A4
RGB	42, 101, 164
RGB Percent	16%, 40%, 64%
CMY	0.8353, 0.6039, 0.3569
CMYK	0.74, 0.38, 0.00, 0.36
HSL	211°, 59%, 40%
HSV	211°, 74%, 64%
XYZ	12.3073, 12.4799, 36.8724
YIQ	90.5410, -55.3870, 7.0850

Conversions

Conversions Part 2

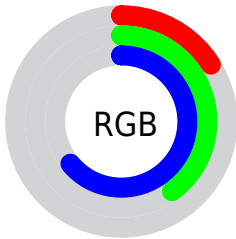
Format	Color
R_{YB}	42, 82, 164
Decimal	2778532
CIE _{Lab}	41.97, 3.09, -39.46
CIE _{LCh}	42, 39.579, 274.477
Yxy	12.4799, 0.1996, 0.2024
Android (android.graphics.Color)	4280968612 (0xFF2A65A4)
YUV	90.5410, 36.2153, -42.5705
Hunter-Lab	35.3269, 0.3641, -37.1551

Details

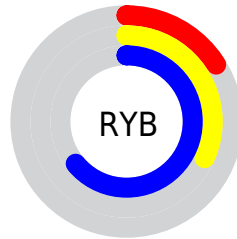
The Yxy color **12.4799, 0.1996, 0.2024** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **18.1528, 0.4773, 0.4171**, and the grayscale version is **10.2781, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.5140, 0.2259, 0.2319**, and **3.9022, 0.1784, 0.1623** is the 20% darker color. If you saturate the color by 10%, you get **10.6424, 0.1888, 0.1828**, and if you desaturate by 10%, it is **14.6290, 0.2125, 0.2223**.

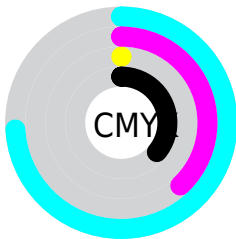
Distribution



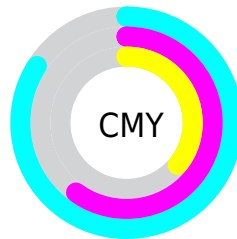
- Red (16%)
- Green (40%)
- Blue (64%)



- Red (16%)
- Yellow (32%)
- Blue (64%)



- Cyan (74%)
- Magenta (38%)
- Yellow (0%)
- Black (36%)



- Cyan (84%)
- Magenta (60%)
- Yellow (36%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 12.4799, 0.1996, 0.2024 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 12.4799, 0.1996, 0.2024 by changing the saturation by 10% instead.

■ 12.4799, 0.1996,
0.2024

■ 12.4799, 0.1996,
0.2024

■ 207.5570, 0.2649,
0.2747

■ 7.0714, 0.1806,
0.1817

■ 30.3662, 0.2254,
0.2308

■ 3.5068, 0.1549,
0.1541

■ 43.6127, 0.2345,
0.2408

■ 1.4017, 0.1196,
0.1167

■ 60.2408, 0.2419,
0.2490

■ 0.2180, 0.0538,
0.0415

■ 80.6347, 0.2481,
0.2559

■ 0.0000, 0.0000,
0.0000

■ 105.1789, 0.2533,
0.2617

■ 134.2577, 0.2577,

0.2666

168.2556, 0.2616,
0.2709

■ 12.4799, 0.1996,
0.2024

■ 12.4799, 0.1996,
0.2024

■ 10.6424, 0.1888,
0.1828

■ 14.6290, 0.2125,
0.2223

■ 9.0916, 0.1803,
0.1640

■ 17.1087, 0.2270,
0.2419

■ 8.3196, 0.1761,
0.1539

■ 19.9376, 0.2425,
0.2607

■ 23.1321, 0.2586,
0.2785

■ 26.7075, 0.2748,
0.2950

■ 30.6780, 0.2907,
0.3100

■ 35.0571, 0.3062,
0.3235

■ 39.8573, 0.3209,
0.3356

■ 45.0909, 0.3348,
0.3463

Harmonies

Analogous

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



12.4799, 0.1712, 0.2226



12.4799, 0.1996, 0.2024



12.4799, 0.2578, 0.2096

Triad

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



12.4799, 0.1996, 0.2024



12.4799, 0.4766, 0.3470



12.4799, 0.2696, 0.4505

Complementary

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



12.4799, 0.1996, 0.2024



18.1528, 0.4773, 0.4171

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.



12.4799, 0.3498, 0.4879



12.4799, 0.1996, 0.2024



12.4799, 0.4734, 0.4086

Square

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



12.4799, 0.1996, 0.2024



12.4799, 0.4257, 0.2885



12.4799, 0.4245, 0.4636



12.4799, 0.2056, 0.3623

Rectangle

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



12.4799, 0.1996, 0.2024



12.4799, 0.3112, 0.2276



12.4799, 0.4245, 0.4636



12.4799, 0.2956, 0.4706

Sweetspot

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



12.4803, 0.1996, 0.2024



49.8615, 0.2780, 0.2981



28.0147, 0.2687, 0.4515



10.5174, 0.2739, 0.2941



82.7571, 0.3127, 0.3290



14.7319, 0.3127, 0.3290

Same Dimension

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



12.4803, 0.1996, 0.2024



17.4968, 0.1831, 0.1709



4.8267, 0.1734, 0.0987



7.3990, 0.2987, 0.3171



6.4755, 0.1766, 0.1556



0.2306, 0.1954, 0.2235

Inverse Universe

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



10.4852, 0.4366, 0.2477



16.2177, 0.4777, 0.2479



34.6012, 0.4088, 0.4878



7.1404, 0.3213, 0.3182



6.4978, 0.4987, 0.2521



0.1461, 0.4195, 0.2085

Previews

White Background



This preview shows how the Yxy color 12.4799, 0.1996, 0.2024 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 12.4799, 0.1996, 0.2024 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 12.4799, 0.1996, 0.2024

Background



This preview shows how black text looks on a background with the Yxy color 12.4799, 0.1996, 0.2024.



This preview shows how white text looks on a background with the Yxy color 12.4799, 0.1996, 0.2024.

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

12.4799, 0.1996, 0.2024

Protanopia

12.5433, 0.2205, 0.2058

Deuteranopia

12.3883, 0.2049, 0.2001



Tritanopia

12.4599, 0.2190, 0.3085

Trichromacy



Original Color

12.4799, 0.1996, 0.2024

Protanomaly

12.3327, 0.2112, 0.2037

Deuteranomaly

12.4728, 0.2031, 0.2015

Tritanomaly

12.3662, 0.2092, 0.2632

Monochromacy



Original Color

12.4799, 0.1996, 0.2024

Achromatopsia

10.4616, 0.3127, 0.3290

Achromatomaly

10.9089, 0.2545, 0.2746

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.4799, 0.1996, 0.2024 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(42, 101, 164)` looks like.

```
.text, #text, p{  
    color:rgb(42, 101, 164)  
}
```

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(42, 101, 164) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(42, 101, 164) }
```

Border

The CSS property to change the border of an element to Yxy 12.4799, 0.1996, 0.2024 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(42, 101, 164) }
```

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

```
.border{ border-color:rgb(42, 101, 164) }
```

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

Here you see how a box with a 4 pixel `rgb(42, 101, 164)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(42, 101, 164); -webkit-box-  
shadow:4px 4px 4px 4px rgb(42, 101, 164);  
box-shadow:4px 4px 4px 4px rgb(42, 101,  
164) }
```


Background

The CSS property to change the background color of an element to Yxy 12.4799, 0.1996, 0.2024 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(42, 101, 164) }
```

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

```
.background{ background-color: rgb(42, 101,  
164) }
```

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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