

Converting Colors

XYZ(12.4433, 12.5000, 35.5475)

Have a look what the booklet for
XYZ(12.4433, 12.5000, 35.5475)
contains.

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Color

**XYZ(12.4064, 12.4176,
35.4612)**

Conversions

Conversions Part 1

Format	Color
Hex	3464A1
RGB	52, 100, 161
RGB Percent	20%, 39%, 63%
CMY	0.7960, 0.6078, 0.3686
CMYK	0.68, 0.38, 0.00, 0.37
HSL	214°, 51%, 42%
HSV	214°, 68%, 63%
XYZ	12.4064, 12.4176, 35.4612
YIQ	92.6020, -48.1890, 8.7950

Conversions

Conversions Part 2

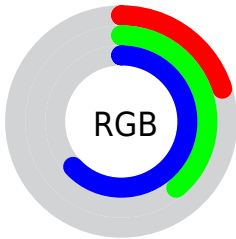
Format	Color
R_{YB}	52, 85, 161
Decimal	3433633
CIE _{Lab}	41.87, 4.18, -37.82
CIE _{LCh}	42, 38.054, 276.312
Yxy	12.4176, 0.2058, 0.2060
Android (android.graphics.Color)	4281623713 (0xFF3464A1)
YUV	92.6020, 33.7202, -35.6080
Hunter-Lab	35.2386, 1.1766, -34.9975




Details

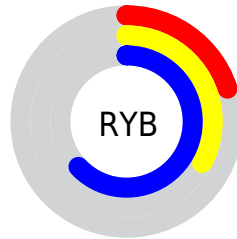
The XYZ color **12.4064, 12.4176, 35.4612** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **21.2240, 19.6370, 5.9214**, and the grayscale version is **10.2447, 10.7782, 11.7375**.




A 20% lighter version of the original color is **29.7314, 30.0856, 69.2058**, and **4.0795, 3.7425, 14.9754** is the 20% darker color. If you saturate the color by 10%, you get **10.8977, 10.4271, 35.1568**, and if you desaturate by 10%, it is **14.2943, 14.7458, 35.8113**.

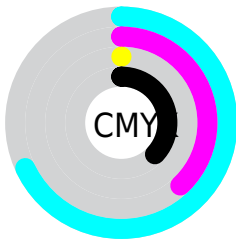
Distribution







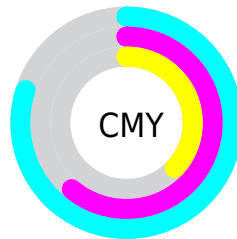
-  Red (20%)
-  Green (39%)
-  Blue (63%)






-  Red (20%)
-  Yellow (33%)
-  Blue (63%)



-  Cyan (68%)
-  Magenta (38%)
-  Yellow (0%)
-  Black (37%)



-  Cyan (80%)
-  Magenta (61%)
-  Yellow (37%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.4064, 12.4176, 35.4612 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 XYZ color 12.4064, 12.4176, 35.4612 by changing the saturation by 10% instead.

■ 12.4064, 12.4176,
35.4612

■ 12.4064, 12.4176,
35.4612

200.7930,
207.1506, 341.5653

■ 7.0953, 7.0288,
23.7320

■ 29.8436, 30.2534,
69.3593

■ 3.5686, 3.4801,
14.9246

■ 42.7004, 43.4692,
92.3652

■ 1.4611, 1.3872,
8.6204

■ 58.8031, 60.0627,
119.9671

■ 0.2991, 0.2073,
4.4010

■ 78.5171, 80.4184,
152.5836

■ 0.0000, 0.0000,
1.8478

■ 102.2077,
104.9207, 190.6330

■ 0.0000, 0.0000,
0.4592

130.2403,

■ 0.0000, 0.0000,

133.9538, 234.5341

0.0000

162.9803,
167.9024, 284.7054

■ 12.4064, 12.4176,
35.4612

■ 12.4064, 12.4176,
35.4612

■ 10.8977, 10.4271,
35.1568

■ 14.2943, 14.7458,
35.8113

■ 9.7334, 8.7515,
34.8947

■ 16.5889, 17.4297,
36.2085

■ 8.8600, 7.3582,
34.6718

■ 19.3163, 20.4874,
36.6549

■ 8.6796, 7.0663,
34.6250

■ 22.5001, 23.9348,
37.1525

■ 26.1621, 27.7871,
37.7031

■ 30.3223, 32.0585,
38.3083

■ 35.0000, 36.7624,
38.9697

■ 40.2130, 41.9116,
39.6888

■ 45.9785, 47.5182,
40.4671

Harmonies

Analogous

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



9.7627, 12.4176, 33.2101



12.4064, 12.4176, 35.4612



15.2989, 12.4176, 30.2093

Triad

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



12.4064, 12.4176, 35.4612



16.7121, 12.4176, 6.2731



7.5150, 12.4176, 8.2093

Complementary

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



12.4064, 12.4176, 35.4612



21.2240, 19.6370, 5.9214

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.



8.8842, 12.4176, 4.4937



12.4064, 12.4176, 35.4612



14.1084, 12.4176, 3.7261

Square

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



12.4064, 12.4176, 35.4612



18.0265, 12.4176, 11.8903



11.2186, 12.4176, 3.2369



7.2067, 12.4176, 15.2936

Rectangle

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



12.4064, 12.4176, 35.4612



16.8916, 12.4176, 24.0443



11.2186, 12.4176, 3.2369



7.8545, 12.4176, 6.6273

Sweetspot

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



12.4069, 12.4180, 35.4615



45.0113, 47.8438, 67.2490



17.0836, 27.3890, 19.7019



9.4885, 10.0908, 14.6913



76.7382, 80.7346, 87.9200



13.3056, 13.9985, 15.2444

Same Dimension

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



12.4069, 12.4180, 35.4615



18.4378, 17.1586, 62.7267



9.3749, 5.9132, 34.3658



6.9451, 7.3492, 8.9556



6.9714, 5.7222, 27.6669



0.1933, 0.2138, 0.5969

Inverse Universe

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



18.2267, 10.9539, 13.2105



30.1274, 16.2912, 17.5686



26.9885, 32.7612, 8.1508



7.1973, 7.1354, 8.0252



12.6643, 6.4218, 5.4229



0.2897, 0.1444, 0.2383

Previews

White Background



This preview shows how the XYZ color 12.4064, 12.4176, 35.4612 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 XYZ color 12.4064, 12.4176, 35.4612 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](#).

XYZ 12.4064, 12.4176, 35.4612

Background



This preview shows how black text looks on a background with the XYZ color 12.4064, 12.4176, 35.4612.



This preview shows how white text looks on a background with the XYZ color 12.4064, 12.4176,

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

12.4064, 12.4176, 35.4612

Protanopia

13.2561, 12.3302, 34.0291

Deuteranopia

12.6985, 12.4267, 35.4475



Tritanopia

9.0479, 12.4047, 19.0570

Trichromacy



Original Color

12.4064, 12.4176, 35.4612

Protanomaly

12.8474, 12.2459, 34.4874

Deuteranomaly

12.5257, 12.3376, 35.4394

Tritanomaly

10.0528, 12.3364, 24.4056

Monochromacy



Original Color

12.4064, 12.4176, 35.4612

Achromatopsia

10.4043, 10.9462, 11.9204

Achromatomaly

10.5948, 11.2934, 18.7610

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.4064, 12.4176, 35.4612 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(52, 100, 161)` looks like.

```
.text, #text, p{  
    color:rgb(52, 100, 161)  
}
```

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(52, 100, 161) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(52, 100, 161) }
```

Border

The CSS property to change the border of an element to XYZ 12.4064, 12.4176, 35.4612 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(52, 100, 161) }
```


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

```
.border{ border-color:rgb(52, 100, 161) }
```

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

Here you see how a box with a 4 pixel `rgb(52, 100, 161)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(52, 100, 161); -webkit-box-  
shadow:4px 4px 4px 4px rgb(52, 100, 161);  
box-shadow:4px 4px 4px 4px rgb(52, 100,  
161) }
```

Background

The CSS property to change the background color of an element to XYZ 12.4064, 12.4176, 35.4612 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(52, 100, 161) }
```

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

```
.background{ background-color: rgb(52, 100,  
161) }
```

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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