

Converting Colors

XYZ(12.4058, 13.7209, 24.9716)

Have a look what the booklet for
XYZ(12.4058, 13.7209, 24.9716)
contains.

XYZ(12.3785, 13.6811, 24.9100)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(12.3785, 13.6811,
24.9100)**

Conversions

Conversions Part 1

Format	Color
Hex	496B87
RGB	73, 107, 135
RGB Percent	29%, 42%, 53%
CMY	0.7137, 0.5804, 0.4706
CMYK	0.46, 0.21, 0.00, 0.47
HSL	207°, 30%, 41%
HSV	207°, 46%, 53%
XYZ	12.3785, 13.6811, 24.9100
YIQ	100.0260, -29.2520, 1.5000

Conversions

Conversions Part 2

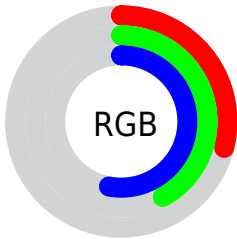
Format	Color
R_{YB}	73, 95, 135
Decimal	4811655
CIE Lab	43.77, -4.20, -19.27
CIE LCh	44, 19.717, 257.715
Yxy	13.6811, 0.2429, 0.2684
Android (android.graphics.Color)	4283001735 (0xFF496B87)
YUV	100.0260, 17.2422, -23.7018
Hunter-Lab	36.9880, -4.9916, -14.0380

Details

The XYZ color **12.3785, 13.6811, 24.9100** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **15.8483, 14.9397, 8.3521**, and the grayscale version is **12.0829, 12.7121, 13.8435**.

A 20% lighter version of the original color is **29.7614, 32.4445, 52.2708**, and **3.5648, 4.0470, 9.1876** is the 20% darker color. If you saturate the color by 10%, you get **10.8512, 11.9835, 24.6631**, and if you desaturate by 10%, it is **14.1735, 15.5839, 25.1829**.

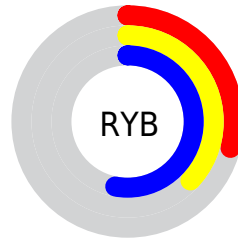
Distribution



Red (29%)

Green (42%)

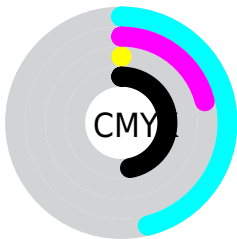
Blue (53%)



Red (29%)

Yellow (37%)

Blue (53%)

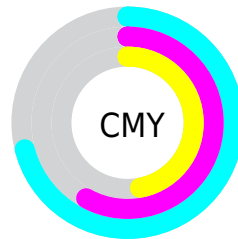


Cyan (46%)

Magenta (21%)

Yellow (0%)

Black (47%)



Cyan (71%)

Magenta (58%)

Yellow (47%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.3785, 13.6811, 24.9100 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 12.3785, 13.6811, 24.9100 by changing the saturation by 10% instead.

■ 12.3785, 13.6811,
24.9100

■ 12.3785, 13.6811,
24.9100

200.6144,
215.2378, 290.8228

■ 7.0760, 7.8992,
15.7916

■ 29.7935, 32.5221,
52.4735

■ 3.5564, 4.0305,
9.2241

■ 42.6368, 46.3500,
71.7557

■ 1.4544, 1.6906,
4.7888

■ 58.7244, 63.6287,
95.2628

■ 0.2945, 0.4176,
2.0673

■ 78.4216, 84.7426,
123.4136

■ 0.0000, 0.0000,
0.5962

■ 102.0939,
110.0760, 156.6264

■ 0.0000, 0.0000,
0.0000

130.1065,

140.0135, 195.3198

162.8249,
174.9393, 239.9124

■ 12.3785, 13.6811,
24.9100

■ 12.3785, 13.6811,
24.9100

■ 10.8512, 11.9835,
24.6631

■ 14.1735, 15.5839,
25.1829

■ 9.5750, 10.4801,
24.4402

■ 16.2491, 17.6990,
25.4818

■ 8.5330, 9.1613,
24.2405

■ 18.6188, 20.0347,
25.8077

■ 7.7057, 8.0155,
24.0630

■ 21.2947, 22.5988,
26.1616

■ 7.0624, 7.0253,
23.9057

■ 24.2882, 25.3982,
26.5442

■ 6.8242, 6.6513,
23.8461

■ 27.6103, 28.4398,
26.9562

■ 31.2713, 31.7301,
27.3983

■ 35.2809, 35.2752,
27.8712

■ 39.6486, 39.0811,
28.3757

Harmonies

Analogous

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



11.0964, 13.6811, 22.1595



12.3785, 13.6811, 24.9100



13.9332, 13.6811, 24.6159

Triad

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



12.3785, 13.6811, 24.9100



16.0598, 13.6811, 12.4433



10.9175, 13.6811, 9.8523

Complementary

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



12.3785, 13.6811, 24.9100



15.8483, 14.9397, 8.3521

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.



12.1161, 13.6811, 8.1458



12.3785, 13.6811, 24.9100



15.1174, 13.6811, 9.4240

Square

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



12.3785, 13.6811, 24.9100



16.1442, 13.6811, 16.7908



13.6491, 13.6811, 8.0064



10.2990, 13.6811, 13.1501

Rectangle

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



12.3785, 13.6811, 24.9100



14.9166, 13.6811, 22.7356



13.6491, 13.6811, 8.0064



11.2613, 13.6811, 9.1046

Sweetspot

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



12.3790, 13.6816, 24.9103



34.0766, 36.5897, 46.3148



13.7561, 19.6824, 15.3607



7.6911, 8.2792, 10.6990



65.7814, 69.2071, 75.3665



9.5508, 10.0482, 10.9424

Same Dimension

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



12.3790, 13.6816, 24.9103



19.3555, 21.3720, 44.1534



9.7126, 8.3489, 24.0215



4.6303, 4.9363, 5.9095



6.3062, 6.1601, 21.9933



0.0291, 0.0359, 0.0786

Inverse Universe

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



15.0284, 10.9780, 15.2373



24.8838, 16.5146, 23.7945



19.4323, 22.1077, 9.5468



4.7714, 4.7283, 5.4087



10.3612, 5.2088, 6.4742



0.0396, 0.0195, 0.0418

Previews

White Background



This preview shows how the XYZ color 12.3785, 13.6811, 24.9100 looks on a white background.

Color Contrast Check

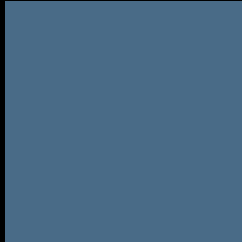
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.3785, 13.6811, 24.9100 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

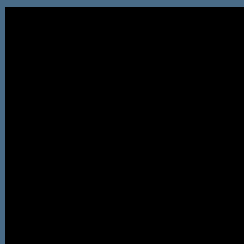
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

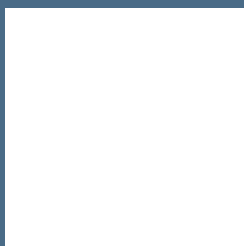
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.3785, 13.6811, 24.9100

Background



This preview shows how black text looks on a background with the XYZ color 12.3785, 13.6811, 24.9100.

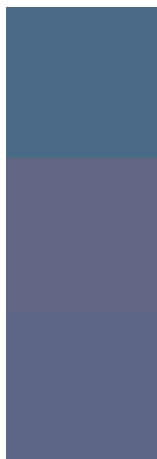


This preview shows how white text looks on a background with the XYZ color 12.3785, 13.6811,

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

12.3785, 13.6811, 24.9100

Protanopia

13.6720, 13.6282, 23.3827

Deuteranopia

13.8169, 13.5178, 25.1735



Tritanopia

11.2896, 13.7127, 19.5046

Trichromacy



Original Color

12.3785, 13.6811, 24.9100

Protanomaly

13.1397, 13.6413, 23.7703

Deuteranomaly

13.2247, 13.5043, 25.2021

Tritanomaly

11.6961, 13.7200, 21.4338

Monochromacy



Original Color

12.3785, 13.6811, 24.9100

Achromatopsia

12.1130, 12.7438, 13.8780

Achromatomaly

12.0473, 13.0664, 17.5099

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.3785, 13.6811, 24.9100 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(73, 107, 135)` looks like.

```
.text, #text, p{  
    color:rgb(73, 107, 135)  
}
```

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(73, 107, 135) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(73, 107, 135) }
```

Border

The CSS property to change the border of an element to XYZ 12.3785, 13.6811, 24.9100 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(73, 107, 135) }
```


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

```
.border{ border-color:rgb(73, 107, 135) }
```

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

Here you see how a box with a 4 pixel `rgb(73, 107, 135)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(73, 107, 135); -webkit-box-  
shadow:4px 4px 4px 4px rgb(73, 107, 135);  
box-shadow:4px 4px 4px 4px rgb(73, 107,  
135) }
```

Background

The CSS property to change the background color of an element to XYZ 12.3785, 13.6811, 24.9100 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(73, 107, 135) }
```

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

```
.background{ background-color: rgb(73, 107,  
135) }
```

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