

Converting Colors

XYZ(16.4104, 18.0975, 44.2209)

Have a look what the booklet for
XYZ(16.4104, 18.0975, 44.2209)
contains.

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Color

**XYZ(16.3840, 18.0440,
44.2143)**

Conversions

Conversions Part 1

Format	Color
Hex	337BB1
RGB	51, 123, 177
RGB Percent	20%, 48%, 69%
CMY	0.8000, 0.5176, 0.3059
CMYK	0.71, 0.31, 0.00, 0.31
HSL	206°, 55%, 45%
HSV	206°, 71%, 69%
XYZ	16.3840, 18.0440, 44.2143
YIQ	107.6280, -60.2460, 1.5300

Conversions

Conversions Part 2

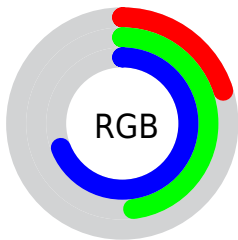
Format	Color
RYB	51, 97, 177
Decimal	3374001
CIELab	49.55, -4.27, -35.09
CIElCh	50, 35.346, 263.058
Yxy	18.0440, 0.2083, 0.2294
Android (android.graphics.Color)	4281564081 (0xFF337BB1)
YUV	107.6280, 34.2004, -49.6628
Hunter-Lab	42.4782, -5.4888, -31.9784

Details

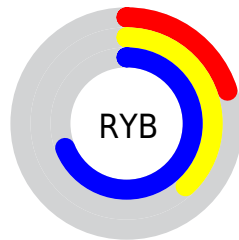
The XYZ color **16.3840, 18.0440, 44.2143** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **23.7817, 19.6910, 5.6803**, and the grayscale version is **14.0703, 14.8030, 16.1205**.

A 20% lighter version of the original color is **36.7200, 39.9879, 82.8739**, and **6.1542, 6.4874, 19.9966** is the 20% darker color. If you saturate the color by 10%, you get **14.7512, 15.8592, 43.8790**, and if you desaturate by 10%, it is **18.4305, 20.5509, 44.5907**.

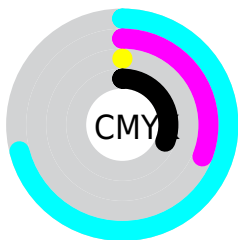
Distribution



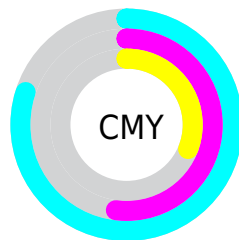
- Red (20%)
- Green (48%)
- Blue (69%)



- Red (20%)
- Yellow (38%)
- Blue (69%)



- Cyan (71%)
- Magenta (31%)
- Yellow (0%)
- Black (31%)



- Cyan (80%)
- Magenta (52%)
- Yellow (31%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 16.3840, 18.0440, 44.2143 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 16.3840, 18.0440, 44.2143 by changing the saturation by 10% instead.

■ 16.3840, 18.0440,
44.2143

■ 16.3840, 18.0440,
44.2143

224.8232,
241.1189, 379.6490

■ 9.8889, 10.9816,
30.5006

■ 36.8157, 40.1123,
82.8460

■ 5.3870, 6.0545,
19.9636

■ 51.4829, 55.8869,
108.6011

■ 2.5132, 2.8782,
12.1848

■ 69.6049, 75.3345,
139.2071

■ 0.9019, 1.0685,
6.7456

■ 91.5469, 98.8393,
175.0825

■ 0.0000, 0.0000,
3.2275

■ 117.6744,
126.7857, 216.6458

■ 0.0000, 0.0000,
1.2119

148.3527,

■ 0.0000, 0.0000,

159.5582, 264.3157

0.0000

183.9472,
197.5411, 318.5105

■ 16.3840, 18.0440,
44.2143

■ 16.3840, 18.0440,
44.2143

■ 14.7512, 15.8592,
43.8790

■ 18.4305, 20.5509,
44.5907

■ 13.4875, 13.9702,
43.5810

■ 20.9248, 23.3990,
45.0090

■ 12.6031, 12.5088,
43.3455

■ 23.8993, 26.6077,
45.4715

■ 27.3828, 30.1938,
45.9801

■ 31.4015, 34.1732,
46.5364

■ 35.9798, 38.5604,
47.1419

■ 41.1404, 43.3693,
47.7981

■ 46.9049, 48.6130,
48.5064

■ 53.2935, 54.3037,
49.2682

Harmonies

Analogous

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



13.5654, 18.0440, 38.3694



16.3840, 18.0440, 44.2143



19.7967, 18.0440, 41.9570

Triad

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



16.3840, 18.0440, 44.2143



23.7805, 18.0440, 13.2754



12.5032, 18.0440, 10.5200

Complementary

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



16.3840, 18.0440, 44.2143



23.7817, 19.6910, 5.6803

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.



14.7509, 18.0440, 7.0984



16.3840, 18.0440, 44.2143



21.3169, 18.0440, 8.2897

Square

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



16.3840, 18.0440, 44.2143



24.3659, 18.0440, 21.9602



17.9401, 18.0440, 6.4413



11.5215, 18.0440, 17.5019

Rectangle

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



16.3840, 18.0440, 44.2143



21.9307, 18.0440, 36.4281



17.9401, 18.0440, 6.4413



13.1205, 18.0440, 9.0214

Sweetspot

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



16.3847, 18.0446, 44.2148



56.1026, 61.0702, 83.3261



19.5616, 33.1381, 18.3306



11.7198, 12.8058, 17.9984



84.5950, 89.0005, 96.9216



16.2198, 17.0645, 18.5832

Same Dimension

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



16.3847, 18.0446, 44.2148



25.1488, 26.5570, 78.2958



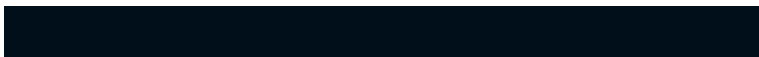
10.9975, 7.2703, 42.4190



8.4315, 9.0092, 10.8009



9.1925, 9.1854, 31.4254



0.3457, 0.4020, 1.0076

Inverse Universe

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



22.8911, 13.1457, 20.0702



38.2371, 19.9809, 28.9915



32.4569, 37.0414, 8.5720



8.6930, 8.5839, 9.8818



14.8746, 7.4674, 9.7656



0.4965, 0.2464, 0.4574

Previews

White Background



This preview shows how the XYZ color 16.3840, 18.0440, 44.2143 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 16.3840, 18.0440, 44.2143 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

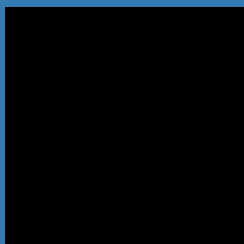
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

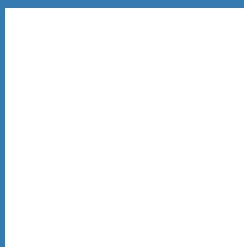
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 16.3840, 18.0440, 44.2143

Background



This preview shows how black text looks on a background with the XYZ color 16.3840, 18.0440, 44.2143.

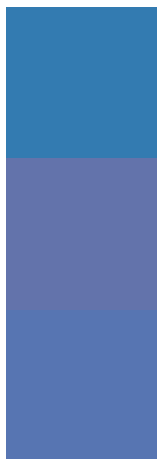


This preview shows how white text looks on a background with the XYZ color 16.3840, 18.0440,

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

16.3840, 18.0440, 44.2143

Protanopia

18.6270, 17.8544, 40.9926

Deuteranopia

18.3277, 17.9632, 44.6207



Tritanopia

13.0398, 18.0169, 27.9897

Trichromacy



Original Color

16.3840, 18.0440, 44.2143

Protanomaly

17.5009, 17.7678, 42.0423

Deuteranomaly

17.4567, 17.8639, 44.6475

Tritanomaly

13.9575, 17.7879, 33.2696

Monochromacy



Original Color

16.3840, 18.0440, 44.2143

Achromatopsia

14.2537, 14.9960, 16.3306

Achromatomaly

14.0692, 15.5299, 24.4464

CSS Examples

Text

The CSS property to change the color of the text to XYZ 16.3840, 18.0440, 44.2143 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(51, 123, 177)` looks like.

```
.text, #text, p{  
    color:rgb(51, 123, 177)  
}
```

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(51, 123, 177) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 123, 177) }
```

Border

The CSS property to change the border of an element to XYZ 16.3840, 18.0440, 44.2143 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(51, 123, 177) }
```


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

```
.border{ border-color:rgb(51, 123, 177) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 123, 177)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 123, 177); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 123, 177);  
box-shadow:4px 4px 4px 4px rgb(51, 123,  
177) }
```

Background

The CSS property to change the background color of an element to XYZ 16.3840, 18.0440, 44.2143 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 123, 177) }
```

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

```
.background{ background-color: rgb(51, 123,  
177) }
```

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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