

Converting Colors

XYZ(13.6727, 16.3038, 33.6797)

Have a look what the booklet for
XYZ(13.6727, 16.3038, 33.6797)
contains.

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Color

**XYZ(13.7135, 16.3468,
33.8850)**

Conversions

Conversions Part 1

Format	Color
Hex	2B789C
RGB	43, 120, 156
RGB Percent	17%, 47%, 61%
CMY	0.8313, 0.5294, 0.3882
CMYK	0.72, 0.23, 0.00, 0.39
HSL	199°, 57%, 39%
HSV	199°, 72%, 61%
XYZ	13.7135, 16.3468, 33.8850
YIQ	101.0810, -57.4480, -5.1280

Conversions

Conversions Part 2

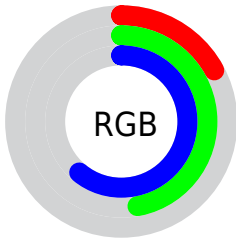
Format	Color
R_{YB}	43, 89, 156
Decimal	2848924
CIE _{Lab}	47.43, -11.14, -26.18
CIE _{LCh}	47, 28.451, 246.940
Yxy	16.3468, 0.2145, 0.2556
Android (android.graphics.Color)	4281039004 (0xFF2B789C)
YUV	101.0810, 27.0751, -50.9370
Hunter-Lab	40.4312, -10.2107, -21.3886

Details

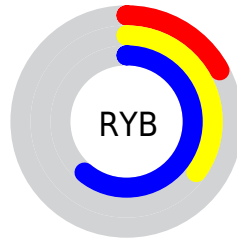
The XYZ color **13.7135, 16.3468, 33.8850** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **16.9432, 12.8356, 3.8708**, and the grayscale version is **12.3342, 12.9766, 14.1315**.

A 20% lighter version of the original color is **32.2193, 37.1513, 67.1008**, and **4.8672, 5.6547, 14.1995** is the 20% darker color. If you saturate the color by 10%, you get **12.5980, 14.9075, 33.6663**, and if you desaturate by 10%, it is **15.1113, 17.9782, 34.1266**.

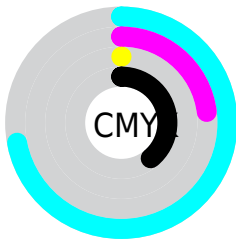
Distribution



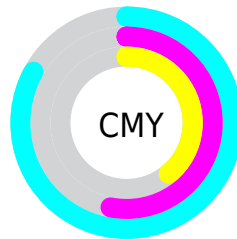
- Red (17%)
- Green (47%)
- Blue (61%)



- Red (17%)
- Yellow (35%)
- Blue (61%)



- Cyan (72%)
- Magenta (23%)
- Yellow (0%)
- Black (39%)



- Cyan (83%)
- Magenta (53%)
- Yellow (39%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 13.7135, 16.3468, 33.8850 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 13.7135, 16.3468, 33.8850 by changing the saturation by 10% instead.

■ 13.7135, 16.3468,
33.8850

■ 13.7135, 16.3468,
33.8850

■ 208.9876,
231.3795, 334.3725

■ 8.0020, 9.7699,
22.5286

■ 32.1703, 37.1992,
66.8866

■ 4.1481, 5.2467,
14.0438

■ 45.6464, 52.2435,
89.3690

■ 1.7862, 2.3927,
8.0120

■ 62.4414, 70.8791,
116.3971

■ 0.5094, 0.8221,
4.0148

■ 82.9207, 93.4903,
148.3894

■ 0.0000, 0.0000,
1.6335

■ 107.4496,
120.4615, 185.7646

■ 0.0000, 0.0000,
0.3145

■ 136.3935,

■ 0.0000, 0.0000,

152.1772, 228.9412

0.0000

170.1177,
189.0218, 278.3376

■ 13.7135, 16.3468,
33.8850

■ 13.7135, 16.3468,
33.8850

■ 12.5980, 14.9075,
33.6663

■ 15.1113, 17.9782,
34.1266

■ 11.7323, 13.6421,
33.4677

■ 16.8158, 19.8142,
34.3911

■ 11.1857, 12.7701,
33.3282

■ 18.8504, 21.8678,
34.6802

■ 21.2355, 24.1501,
34.9951

■ 23.9900, 26.6716,
35.3366

■ 27.1314, 29.4418,
35.7057

■ 30.6757, 32.4696,
36.1033

■ 34.6384, 35.7637,
36.5303

■ 39.0337, 39.3319,
36.9874

Harmonies

Analogous

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



11.9736, 16.3468, 27.5212



13.7135, 16.3468, 33.8850



16.1306, 16.3468, 35.4575

Triad

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



13.7135, 16.3468, 33.8850



20.8669, 16.3468, 16.1726



12.8005, 16.3468, 8.8442

Complementary

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



13.7135, 16.3468, 33.8850



16.9432, 12.8356, 3.8708

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.



14.9584, 16.3468, 7.2634



13.7135, 16.3468, 33.8850



19.7456, 16.3468, 10.6874

Square

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



13.7135, 16.3468, 33.8850



20.4413, 16.3468, 23.8138



17.5157, 16.3468, 7.8324



11.4877, 16.3468, 12.8930

Rectangle

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



13.7135, 16.3468, 33.8850



17.8400, 16.3468, 33.2781



17.5157, 16.3468, 7.8324



13.4415, 16.3468, 8.0646

Sweetspot

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



13.7141, 16.3474, 33.8854



43.5698, 48.4405, 64.1803



14.2888, 24.8524, 11.4009



9.3005, 10.4003, 14.0876



74.8435, 78.7412, 85.7492



12.6291, 13.2868, 14.4694

Same Dimension

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



13.7141, 16.3474, 33.8854



21.8431, 25.5953, 60.9159



8.8153, 6.5498, 32.2525



6.6435, 7.1527, 8.4371



9.2456, 10.5828, 27.4626



0.2016, 0.2617, 0.5031

Inverse Universe

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



17.9649, 10.1525, 18.7825



30.5851, 15.7203, 29.2136



22.8505, 24.6502, 5.8399



6.8141, 6.7186, 7.8724



13.4650, 6.6906, 11.9654



0.2591, 0.1269, 0.3103

Previews

White Background



This preview shows how the XYZ color 13.7135, 16.3468, 33.8850 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 13.7135, 16.3468, 33.8850 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

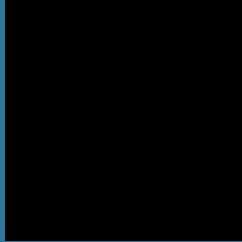
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 13.7135, 16.3468, 33.8850

Background



This preview shows how black text looks on a background with the XYZ color 13.7135, 16.3468, 33.8850.

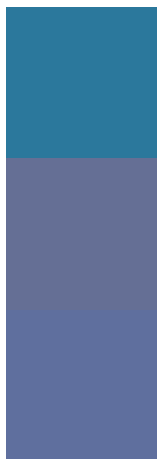


This preview shows how white text looks on a background with the XYZ color 13.7135, 16.3468,

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

13.7135, 16.3468, 33.8850

Protanopia

16.4761, 16.3055, 30.7127

Deuteranopia

16.5753, 16.2704, 34.6146



Tritanopia

11.9116, 16.3432, 25.0810

Trichromacy



Original Color

13.7135, 16.3468, 33.8850

Protanomaly

14.9931, 16.0071, 32.0052

Deuteranomaly

15.0836, 16.0054, 34.1927

Tritanomaly

12.5611, 16.4260, 28.0997

Monochromacy



Original Color

13.7135, 16.3468, 33.8850

Achromatopsia

12.3695, 13.0136, 14.1719

Achromatomaly

12.1220, 13.8111, 20.1161

CSS Examples

Text

The CSS property to change the color of the text to XYZ 13.7135, 16.3468, 33.8850 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(43, 120, 156)` looks like.

```
.text, #text, p{  
    color:rgb(43, 120, 156)  
}
```

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(43, 120, 156) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(43, 120, 156) }
```

Border

The CSS property to change the border of an element to XYZ 13.7135, 16.3468, 33.8850 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(43, 120, 156) }
```


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

```
.border{ border-color:rgb(43, 120, 156) }
```

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

Here you see how a box with a 4 pixel `rgb(43, 120, 156)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(43, 120, 156); -webkit-box-  
shadow:4px 4px 4px 4px rgb(43, 120, 156);  
box-shadow:4px 4px 4px 4px rgb(43, 120,  
156) }
```

Background

The CSS property to change the background color of an element to XYZ 13.7135, 16.3468, 33.8850 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(43, 120, 156) }
```

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

```
.background{ background-color: rgb(43, 120,  
156) }
```

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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