

Converting Colors

XYZ(16.6504, 9.8002, 42.0624)

Have a look what the booklet for
XYZ(16.6504, 9.8002, 42.0624)
contains.

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Color

**XYZ(16.5868, 9.7448,
42.0810)**

Conversions

Conversions Part 1

Format	Color
Hex	7538B0
RGB	117, 56, 176
RGB Percent	46%, 22%, 69%
CMY	0.5412, 0.7804, 0.3098
CMYK	0.34, 0.68, 0.00, 0.31
HSL	271°, 52%, 45%
HSV	271°, 68%, 69%
XYZ	16.5868, 9.7448, 42.0810
YIQ	87.9190, -2.1640, 50.2520

Conversions

Conversions Part 2

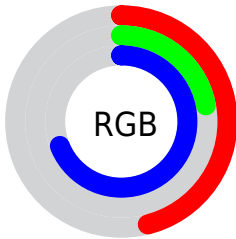
Format	Color
R_{YB}	117, 56, 176
Decimal	7682224
CIE _{Lab}	37.38, 49.32, -53.65
CIE _{LCh}	37, 72.875, 312.596
Yxy	9.7448, 0.2425, 0.1424
Android (android.graphics.Color)	4285872304 (0xFF7538B0)
YUV	87.9190, 43.4239, 25.5040
Hunter-Lab	31.2167, 40.2158, -58.0730

Details

The XYZ color **16.5868, 9.7448, 42.0810** is a dark color, and the websafe version is hex **663399**. A complement of this color would be **23.3092, 34.9810, 9.2650**, and the grayscale version is **9.1672, 9.6447, 10.5030**.

A 20% lighter version of the original color is **37.0568, 25.2258, 79.2599**, and **5.4995, 2.4293, 18.5914** is the 20% darker color. If you saturate the color by 10%, you get **14.7695, 7.7567, 41.7932**, and if you desaturate by 10%, it is **18.8123, 12.3885, 42.4742**.

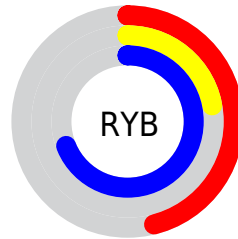
Distribution



Red (46%)

Green (22%)

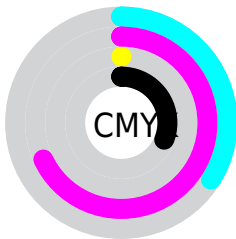
Blue (69%)



Red (46%)

Yellow (22%)

Blue (69%)

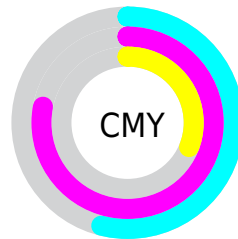


Cyan (34%)

Magenta (68%)

Yellow (0%)

Black (31%)



Cyan (54%)

Magenta (78%)

Yellow (31%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 16.5868, 9.7448, 42.0810 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 16.5868, 9.7448, 42.0810 by changing the saturation by 10% instead.

■ 16.5868, 9.7448,
42.0810

■ 16.5868, 9.7448,
42.0810

225.9828,
188.8408, 370.6282

■ 10.0338, 5.2301,
28.8387

■ 37.1632, 25.3144,
79.5936

■ 5.4838, 2.3829,
18.7143

■ 51.9174, 37.1380,
104.7010

■ 2.5715, 0.8171,
11.2893

■ 70.1360, 52.1668,
134.6005

■ 0.9314, 0.0000,
6.1452

■ 92.1844, 70.7850,
169.7106

■ 0.0000, 0.0000,
2.8633

■ 118.4279, 93.3772,
210.4498

■ 0.0000, 0.0000,
1.0253

■ 149.2319,

■ 0.0000, 0.0000,

120.3276, 257.2368

0.0000

184.9617,
152.0207, 310.4901

■ 16.5868, 9.7448,
42.0810

■ 16.5868, 9.7448,
42.0810

■ 14.7695, 7.7567,
41.7932

■ 18.8123, 12.3885,
42.4742

■ 13.3231, 6.3557,
41.5991

■ 21.4756, 15.7449,
42.9817

■ 12.1900, 5.4305,
41.4802

■ 24.6050, 19.8657,
43.6121

■ 12.0017, 5.2818,
41.4614

■ 28.2257, 24.7973,
44.3732

■ 32.3607, 30.5826,
45.2719

■ 37.0319, 37.2611,
46.3148

■ 42.2594, 44.8700,
47.5080

■ 48.0624, 53.4443,
48.8571

■ 54.4593, 63.0170,
50.3677

Harmonies

Analogous

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



11.3170, 9.7448, 59.1129



16.5868, 9.7448, 42.0810



20.4537, 9.7448, 20.0757

Triad

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



16.5868, 9.7448, 42.0810



12.1517, 9.7448, 0.0000



3.0546, 9.7448, 17.1107

Complementary

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



16.5868, 9.7448, 42.0810



23.3092, 34.9810, 9.2650

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.



3.1467, 9.7448, 4.7161



16.5868, 9.7448, 42.0810



7.4724, 9.7448, 0.0000

Square

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



16.5868, 9.7448, 42.0810



17.3686, 9.7448, 1.0605



4.4913, 9.7448, 0.7552



4.1767, 9.7448, 38.4450

Rectangle

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



16.5868, 9.7448, 42.0810



21.1289, 9.7448, 9.5093



4.4913, 9.7448, 0.7552



2.9588, 9.7448, 11.7935

Sweetspot

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



16.5873, 9.7451, 42.0812



56.9839, 53.0560, 81.7328



15.7129, 16.4663, 43.4246



11.8958, 10.8613, 17.6138



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.



16.5873, 9.7451, 42.0812



25.3293, 12.6090, 75.5941



27.1553, 15.1932, 42.5758



8.4400, 8.4354, 10.6897



8.8735, 3.9103, 30.4241



0.3463, 0.1577, 0.9604

Inverse Universe

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



22.4132, 13.2963, 17.6041



37.5680, 20.0643, 24.3858



17.8702, 32.1771, 9.0104



8.6647, 8.5726, 9.7327



14.4145, 7.2833, 7.3425



0.4830, 0.2410, 0.3863

Previews

White Background



This preview shows how the XYZ color 16.5868, 9.7448, 42.0810 looks on a white background.

Color Contrast Check

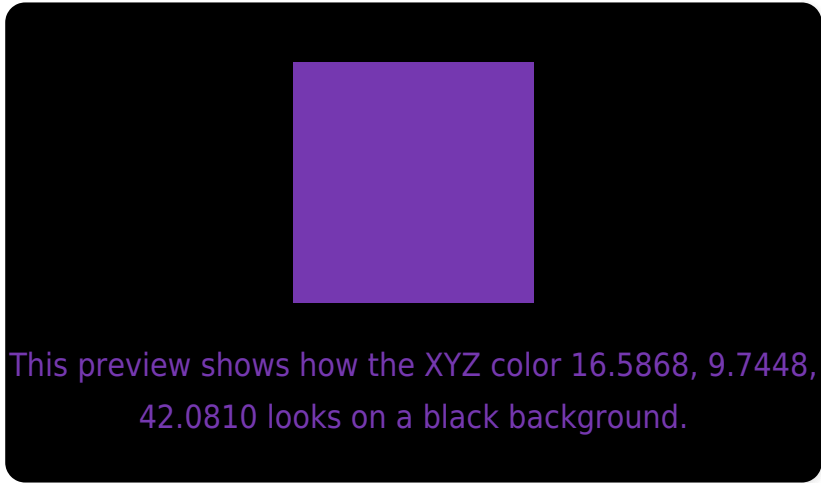
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

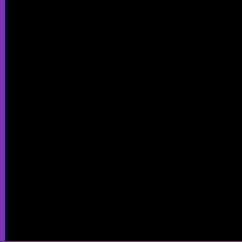
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 16.5868, 9.7448, 42.0810

Background



This preview shows how black text looks on a background with the XYZ color 16.5868, 9.7448, 42.0810.



This preview shows how white text looks on a background with the XYZ color 16.5868, 9.7448,

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

16.5868, 9.7448, 42.0810

Protanopia

11.4867, 9.7923, 44.4647

Deuteranopia

9.8277, 9.7810, 33.7177



Tritanopia

10.2713, 9.7882, 11.0208

Trichromacy



Original Color

16.5868, 9.7448, 42.0810



Protanomaly

11.5817, 8.6658, 43.7101



Deuteranomaly

10.5122, 8.6790, 36.7185



Tritanomaly

11.8438, 9.3422, 19.2681

Monochromacy



Original Color

16.5868, 9.7448, 42.0810



Achromatopsia

9.2757, 9.7587, 10.6273



Achromatomaly

11.1202, 9.1776, 18.9547

CSS Examples

Text

The CSS property to change the color of the text to XYZ 16.5868, 9.7448, 42.0810 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(117, 56, 176)` looks like.

```
.text, #text, p{  
    color:rgb(117, 56, 176)  
}
```

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(117, 56, 176) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(117, 56, 176) }
```

Border

The CSS property to change the border of an element to XYZ 16.5868, 9.7448, 42.0810 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(117, 56, 176) }
```


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

```
.border{ border-color:rgb(117, 56, 176) }
```

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

Here you see how a box with a 4 pixel `rgb(117, 56, 176)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(117, 56, 176); -webkit-box-shadow:4px 4px 4px 4px rgb(117, 56, 176); box-shadow:4px 4px 4px 4px rgb(117, 56, 176) }
```

Background

The CSS property to change the background color of an element to XYZ 16.5868, 9.7448, 42.0810 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(117, 56, 176) }
```

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

```
.background{ background-color: rgb(117, 56,  
176) }
```

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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