

Converting Colors

XYZ(12.8857, 16.7945, 8.1262)

Have a look what the booklet for
XYZ(12.8857, 16.7945, 8.1262)
contains.

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Color

**XYZ(12.9635, 16.8901,
8.2071)**

Conversions

Conversions Part 1

Format	Color
Hex	617A45
RGB	97, 122, 69
RGB Percent	38%, 48%, 27%
CMY	0.6196, 0.5216, 0.7294
CMYK	0.20, 0.00, 0.43, 0.52
HSL	88°, 28%, 37%
HSV	88°, 43%, 48%
XYZ	12.9635, 16.8901, 8.2071
YIQ	108.4830, 2.1130, -21.7830

Conversions

Conversions Part 2

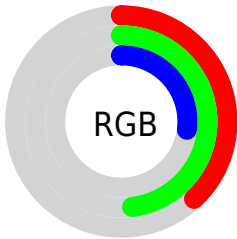
Format	Color
RYB	69, 122, 94
Decimal	6388293
CIELab	48.12, -19.01, 26.07
CIELCh	48, 32.265, 126.100
Yxy	16.8901, 0.3406, 0.4438
Android (android.graphics.Color)	4284578373 (0xFF617A45)
YUV	108.4830, -19.4651, -10.0706
Hunter-Lab	41.0976, -15.6161, 16.9282

Details

The XYZ color **12.9635, 16.8901, 8.2071** is a dark color, and the websafe version is hex **666633**. A complement of this color would be **10.2577, 8.0415, 19.4248**, and the grayscale version is **14.4428, 15.1949, 16.5473**.

A 20% lighter version of the original color is **30.9944, 38.3575, 22.9097**, and **3.8140, 5.4840, 1.7217** is the 20% darker color. If you saturate the color by 10%, you get **12.0321, 16.4498, 6.3859**, and if you desaturate by 10%, it is **14.0182, 17.3860, 10.4413**.

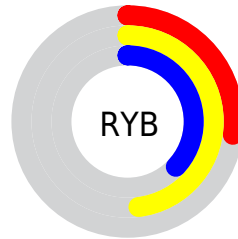
Distribution



Red (38%)

Green (48%)

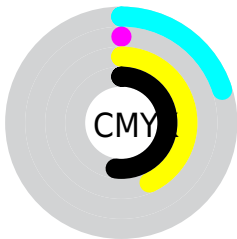
Blue (27%)



Red (27%)

Yellow (48%)

Blue (37%)

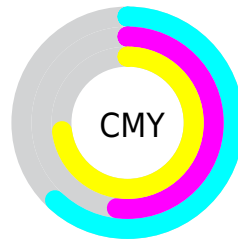


Cyan (20%)

Magenta (0%)

Yellow (43%)

Black (52%)



Cyan (62%)

Magenta (52%)

Yellow (73%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9635, 16.8901, 8.2071 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 12.9635, 16.8901, 8.2071 by changing the saturation by 10% instead.

■ 12.9635, 16.8901,
8.2071

■ 12.9635, 16.8901,
8.2071

204.3259,
234.5383, 187.3423

■ 7.4802, 10.1562,
4.1381

■ 30.8401, 38.1367,
22.9163

■ 3.8132, 5.5026,
1.7014

■ 43.9641, 53.4182,
34.3935

■ 1.5970, 2.5451,
0.3617

■ 60.3657, 72.3177,
49.1773

■ 0.3905, 0.8991,
0.0000

■ 80.4104, 95.2195,
67.6861

■ 0.0000, 0.0000,
0.0000

■ 104.4634,
122.5080, 90.3384

132.8901,

154.5678, 117.5529

166.0558,
191.7830, 149.7480

■ 12.9635, 16.8901,
8.2071

■ 12.9635, 16.8901,
8.2071

■ 12.0321, 16.4498,
6.3859

■ 14.0182, 17.3860,
10.4413

■ 11.2168, 16.0605,
4.9513

■ 15.2002, 17.9375,
13.1107

■ 10.5120, 15.7202,
3.8755

■ 16.5149, 18.5474,
16.2371

■ 9.9104, 15.4260,
3.1264

■ 17.9669, 19.2176,
19.8405

■ 9.4033, 15.1743,
2.6631

■ 19.5606, 19.9502,
23.9399

■ 9.1036, 15.0249,
2.4203

■ 21.3003, 20.7467,
28.5531

■ 23.1899, 21.6089,
33.6970

■ 25.2333, 22.5385,
39.3879

■ 27.4342, 23.5370,
45.6411

Harmonies

Analogous

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



15.4634, 16.8901, 6.5766



12.9635, 16.8901, 8.2071



11.4424, 16.8901, 12.6079

Triad

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



12.9635, 16.8901, 8.2071



13.8817, 16.8901, 37.3891



22.3181, 16.8901, 16.7319

Complementary

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



12.9635, 16.8901, 8.2071



10.2577, 8.0415, 19.4248

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.



21.7619, 16.8901, 25.7157



12.9635, 16.8901, 8.2071



16.6584, 16.8901, 39.4970

Square

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



12.9635, 16.8901, 8.2071



11.9258, 16.8901, 29.6026



19.5993, 16.8901, 34.7098



21.0383, 16.8901, 10.4411

Rectangle

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



12.9635, 16.8901, 8.2071



11.0722, 16.8901, 17.3169



19.5993, 16.8901, 34.7098



22.3415, 16.8901, 19.5075

Sweetspot

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



12.9639, 16.8908, 8.2075



29.0847, 32.6434, 28.6410



13.0799, 12.5259, 7.3588



6.5488, 7.4170, 6.3031



59.0181, 62.0916, 67.6177



7.4413, 7.8288, 8.5256

Same Dimension

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



12.9639, 16.8908, 8.2075



21.1961, 28.9526, 11.2883



10.6157, 15.6803, 8.0976



4.1341, 4.5444, 4.2838



9.5746, 15.8131, 2.5476



44.6821, 74.9199, 12.1060

Inverse Universe

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



10.2577, 8.0415, 19.4248



15.7838, 11.2480, 33.7321



13.4197, 9.6716, 19.5727



3.9607, 3.9776, 5.0022



5.4987, 2.4074, 19.5602



25.2619, 10.9850, 93.2587

Previews

White Background



This preview shows how the XYZ color 12.9635, 16.8901, 8.2071 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 12.9635, 16.8901, 8.2071 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 12.9635, 16.8901, 8.2071

Background



This preview shows how black text looks on a background with the XYZ color 12.9635, 16.8901, 8.2071.



This preview shows how white text looks on a background with the XYZ color 12.9635, 16.8901,

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

12.9635, 16.8901, 8.2071

Protanopia

15.4581, 16.7879, 7.5799

Deuteranopia

16.9549, 16.7235, 8.4652



Tritanopia

15.7728, 16.9747, 21.8472

Trichromacy



Original Color

12.9635, 16.8901, 8.2071

Protanomaly

14.4446, 16.7727, 7.7863

Deuteranomaly

15.1807, 16.6271, 8.3705

Tritanomaly

14.5077, 16.8016, 15.8430

Monochromacy



Original Color

12.9635, 16.8901, 8.2071

Achromatopsia

14.2537, 14.9960, 16.3306

Achromatomaly

13.6344, 15.5615, 12.8747

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9635, 16.8901, 8.2071 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(97, 122, 69) looks like.

```
.text, #text, p{  
    color:rgb(97, 122, 69)  
}
```

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(97, 122, 69) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(97, 122, 69) }
```

Border

The CSS property to change the border of an element to XYZ 12.9635, 16.8901, 8.2071 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(97, 122, 69) }
```


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

```
.border{ border-color:rgb(97, 122, 69) }
```

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

Here you see how a box with a 4 pixel rgb(97, 122, 69) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(97, 122, 69); -webkit-box-  
shadow:4px 4px 4px 4px rgb(97, 122, 69);  
box-shadow:4px 4px 4px 4px rgb(97, 122,  
69) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9635, 16.8901, 8.2071 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(97, 122, 69) }
```

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

```
.background{ background-color: rgb(97, 122,  
69) }
```

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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