

Converting Colors

XYZ(12.9362, 12.8128, 18.2755)

Have a look what the booklet for
XYZ(12.9362, 12.8128, 18.2755)
contains.

XYZ(12.8869, 12.7630, 18.3073)	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(12.8869, 12.7630,
18.3073)**

Conversions

Conversions Part 1

Format	Color
Hex	656274
RGB	101, 98, 116
RGB Percent	40%, 38%, 45%
CMY	0.6039, 0.6157, 0.5451
CMYK	0.13, 0.16, 0.00, 0.55
HSL	250°, 8%, 42%
HSV	250°, 16%, 45%
XYZ	12.8869, 12.7630, 18.3073
YIQ	100.9490, -3.9900, 6.2340

Conversions

Conversions Part 2

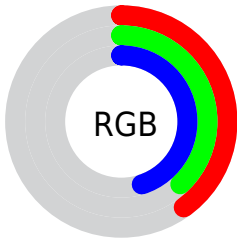
Format	Color
R_{YB}	101, 98, 116
Decimal	6644340
CIE _{Lab}	42.40, 5.12, -9.69
CIE _{LCh}	42, 10.962, 297.872
Yxy	12.7630, 0.2932, 0.2904
Android (android.graphics.Color)	4284834420 (0xFF656274)
YUV	100.9490, 7.4201, 0.0447
Hunter-Lab	35.7253, 1.8694, -5.3752

Details

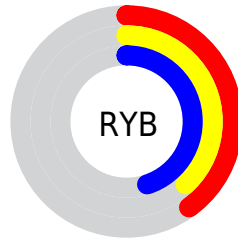
The XYZ color **12.8869, 12.7630, 18.3073** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **15.2605, 16.8837, 14.0104**, and the grayscale version is **12.3390, 12.9816, 14.1369**.

A 20% lighter version of the original color is **30.7642, 30.9974, 41.4074**, and **3.7927, 3.6576, 5.9749** is the 20% darker color. If you saturate the color by 10%, you get **10.8598, 10.2221, 17.9239**, and if you desaturate by 10%, it is **15.1994, 15.6852, 18.7497**.

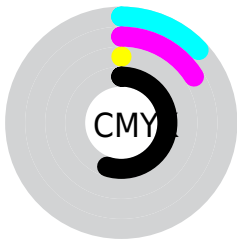
Distribution



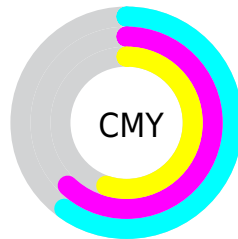
- Red (40%)
- Green (38%)
- Blue (45%)



- Red (40%)
- Yellow (38%)
- Blue (45%)



- Cyan (13%)
- Magenta (16%)
- Yellow (0%)
- Black (55%)



- Cyan (60%)
- Magenta (62%)
- Yellow (55%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.8869, 12.7630, 18.3073 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 12.8869, 12.7630, 18.3073 by changing the saturation by 10% instead.

■ 12.8869, 12.7630,
18.3073

■ 12.8869, 12.7630,
18.3073

203.8438,
209.3931, 254.8915

■ 7.4272, 7.2656,
10.9991

■ 30.7035, 30.8773,
41.3813

■ 3.7793, 3.6287,
5.9521

■ 43.7911, 44.2630,
57.9841

■ 1.5781, 1.4681,
2.7476

■ 60.1520, 61.0469,
78.5223

■ 0.3781, 0.2661,
0.9673

■ 80.1516, 81.6134,
103.4143

■ 0.0000, 0.0000,
0.0000

104.1552,
106.3469, 133.0786

132.5282,

135.6317, 167.9340

165.6360,
169.8523, 208.3987

■ 12.8869, 12.7630,
18.3073

■ 12.8869, 12.7630,
18.3073

■ 10.8598, 10.2221,
17.9239

■ 15.1994, 15.6852,
18.7497

■ 9.1059, 8.0453,
17.5962

■ 17.8068, 19.0021,
19.2525

■ 7.6136, 6.2161,
17.3218

■ 20.7193, 22.7280,
19.8181

■ 6.3702, 4.7165,
17.0978

■ 23.9465, 26.8765,
20.4488

■ 5.3619, 3.5265,
16.9213

■ 27.4974, 31.4601,
21.1464

■ 4.5734, 2.6242,
16.7887

■ 31.3808, 36.4911,
21.9128

■ 3.9877, 1.9846,
16.6961

■ 35.6050, 41.9813,
22.7498

■ 3.5776, 1.5640,
16.6365

■ 40.1782, 47.9418,
23.6593

■ 3.4274, 1.4027,
16.6133

■ 45.1082, 54.3835,
24.6428

Harmonies

Analogous

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



12.0721, 12.7630, 18.9435



12.8869, 12.7630, 18.3073



13.5230, 12.7630, 16.4528

Triad

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



12.8869, 12.7630, 18.3073



12.9933, 12.7630, 10.3966



10.6151, 12.7630, 13.7289

Complementary

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



12.8869, 12.7630, 18.3073



15.2605, 16.8837, 14.0104

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.



10.8377, 12.7630, 11.6201



12.8869, 12.7630, 18.3073



12.1898, 12.7630, 9.8368

Square

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



12.8869, 12.7630, 18.3073



13.5864, 12.7630, 11.8811



11.4050, 12.7630, 10.2584



10.7832, 12.7630, 16.1283

Rectangle

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



12.8869, 12.7630, 18.3073



13.7471, 12.7630, 14.8722



11.4050, 12.7630, 10.2584



10.6465, 12.7630, 12.9649

Sweetspot

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



12.8873, 12.7635, 18.3076



26.8861, 27.7853, 32.9906



14.1284, 15.7353, 18.8158



6.3566, 6.5557, 7.8593



57.3938, 60.3827, 65.7568



6.9614, 7.3239, 7.9757

Same Dimension

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



12.8873, 12.7635, 18.3076



21.1813, 20.5858, 31.9016



13.9136, 13.2926, 18.3556



3.5523, 3.6165, 4.6011



3.8343, 1.5680, 18.6431



18.1798, 7.3805, 90.8267

Inverse Universe

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



14.5512, 13.6411, 17.4894



24.7675, 22.4782, 30.1000



14.1942, 16.3340, 13.9605



3.8017, 3.7480, 4.4825



10.4813, 5.1262, 13.0088



50.8058, 24.8724, 61.9659

Previews

White Background



This preview shows how the XYZ color 12.8869, 12.7630, 18.3073 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 12.8869, 12.7630, 18.3073 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

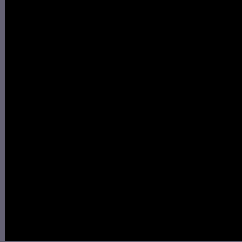
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.8869, 12.7630, 18.3073

Background



This preview shows how black text looks on a background with the XYZ color 12.8869, 12.7630, 18.3073.



This preview shows how white text looks on a background with the XYZ color 12.8869, 12.7630,

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

12.8869, 12.7630, 18.3073

Protanopia

12.6025, 12.7494, 18.6263

Deuteranopia

12.9996, 12.8211, 18.3126



Tritanopia

12.3712, 12.6945, 15.7082

Trichromacy



Original Color

12.8869, 12.7630, 18.3073

Protanomaly

12.7097, 12.8047, 18.6313

Deuteranomaly

12.9996, 12.8211, 18.3126

Tritanomaly

12.5318, 12.7588, 16.5540

Monochromacy



Original Color

12.8869, 12.7630, 18.3073

Achromatopsia

12.3695, 13.0136, 14.1719

Achromatomaly

12.5255, 12.9217, 15.4696

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8869, 12.7630, 18.3073 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(101, 98, 116)` looks like.

```
.text, #text, p{  
    color:rgb(101, 98, 116)  
}
```

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(101, 98, 116) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(101, 98, 116) }
```

Border

The CSS property to change the border of an element to XYZ 12.8869, 12.7630, 18.3073 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(101, 98, 116) }
```


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

```
.border{ border-color:rgb(101, 98, 116) }
```

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

Here you see how a box with a 4 pixel `rgb(101, 98, 116)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(101, 98, 116); -webkit-box-  
shadow:4px 4px 4px 4px rgb(101, 98, 116);  
box-shadow:4px 4px 4px 4px rgb(101, 98,  
116) }
```

Background

The CSS property to change the background color of an element to XYZ 12.8869, 12.7630, 18.3073 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(101, 98, 116) }
```

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

```
.background{ background-color: rgb(101, 98,  
116) }
```

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