

Converting Colors

XYZ(12.8334, 12.5231, 16.4371)

Have a look what the booklet for
XYZ(12.8334, 12.5231, 16.4371)
contains.

XYZ(12.8230, 12.4948, 16.4877)	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(12.8230, 12.4948,
16.4877)**

Conversions

Conversions Part 1

Format	Color
Hex	69606E
RGB	105, 96, 110
RGB Percent	41%, 38%, 43%
CMY	0.5882, 0.6235, 0.5686
CMYK	0.05, 0.13, 0.00, 0.57
HSL	279°, 7%, 40%
HSV	279°, 13%, 43%
XYZ	12.8230, 12.4948, 16.4877
YIQ	100.2870, 0.8700, 6.2620

Conversions

Conversions Part 2

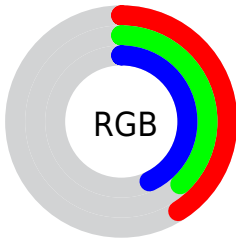
Format	Color
R_{YB}	105, 96, 110
Decimal	6905966
CIE _{Lab}	41.99, 6.48, -6.62
CIE _{LCh}	42, 9.257, 314.388
Yxy	12.4948, 0.3067, 0.2989
Android (android.graphics.Color)	4285096046 (0xFF69606E)
YUV	100.2870, 4.7885, 4.1333
Hunter-Lab	35.3480, 2.8945, -2.9116

Details

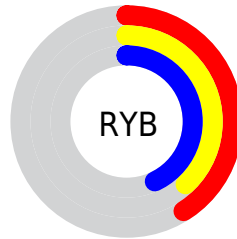
The XYZ color **12.8230, 12.4948, 16.4877** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **13.0546, 14.7634, 13.2286**, and the grayscale version is **12.1747, 12.8087, 13.9487**.

A 20% lighter version of the original color is **30.5108, 30.2343, 38.4101**, and **3.7550, 3.5285, 5.0406** is the 20% darker color. If you saturate the color by 10%, you get **11.4380, 10.3940, 16.1554**, and if you desaturate by 10%, it is **14.3705, 14.8885, 16.8684**.

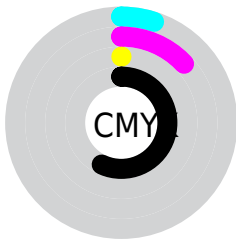
Distribution



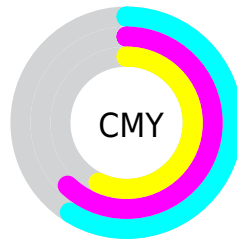
- Red (41%)
- Green (38%)
- Blue (43%)



- Red (41%)
- Yellow (38%)
- Blue (43%)



- Cyan (5%)
- Magenta (13%)
- Yellow (0%)
- Black (57%)



- Cyan (59%)
- Magenta (62%)
- Yellow (57%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.8230, 12.4948, 16.4877 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 12.8230, 12.4948, 16.4877 by changing the saturation by 10% instead.

■ 12.8230, 12.4948,
16.4877

■ 12.8230, 12.4948,
16.4877

203.4408,
207.6540, 244.1458

■ 7.3829, 7.0816,
9.7118

■ 30.5895, 30.3931,
38.2213

■ 3.7512, 3.5132,
5.1052

■ 43.6466, 43.6471,
54.0162

■ 1.5623, 1.4052,
2.2493

■ 59.9734, 60.2833,
73.6544

■ 0.3677, 0.2205,
0.7026

■ 79.9353, 80.6864,
97.5546

■ 0.0000, 0.0000,
0.0000

103.8976,
105.2406, 126.1353

132.2257,

134.3303, 159.8151

165.2850,
168.3400, 199.0124

■ 12.8230, 12.4948,
16.4877

■ 12.8230, 12.4948,
16.4877

■ 11.4380, 10.3940,
16.1554

■ 14.3705, 14.8885,
16.8684

■ 10.2083, 8.5729,
15.8687

■ 16.0852, 17.5847,
17.2984

■ 9.1279, 7.0194,
15.6258

■ 17.9729, 20.5944,
17.7798

■ 8.1897, 5.7199,
15.4244

■ 20.0387, 23.9274,
18.3143

■ 7.3860, 4.6597,
15.2621

■ 22.2876, 27.5935,
18.9034

6.7087, 3.8226,
15.1362

24.7244, 31.6016,
19.5486

6.1481, 3.1901,
15.0437

27.3537, 35.9606,
20.2514

5.6921, 2.7382,
14.9805

30.1798, 40.6789,
21.0132

5.3916, 2.4543,
14.9416

33.2071, 45.7646,
21.8353

Harmonies

Analogous

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



12.2068, 12.4948, 17.6030



12.8230, 12.4948, 16.4877



13.1925, 12.4948, 14.6472

Triad

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



12.8230, 12.4948, 16.4877



12.2346, 12.4948, 10.2803



10.6432, 12.4948, 14.5654

Complementary

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



12.8230, 12.4948, 16.4877



13.0546, 14.7634, 13.2286

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.



10.6500, 12.4948, 12.6129



12.8230, 12.4948, 16.4877



11.5511, 12.4948, 10.2629

Square

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



12.8230, 12.4948, 16.4877



12.8440, 12.4948, 11.1289



10.9767, 12.4948, 11.0791



10.9578, 12.4948, 16.4229

Rectangle

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



12.8230, 12.4948, 16.4877



13.2407, 12.4948, 13.3177



10.9767, 12.4948, 11.0791



10.6084, 12.4948, 13.8959

Sweetspot

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



12.8234, 12.4953, 16.4880



24.8446, 25.5351, 29.5266



12.3055, 12.9464, 16.6023



5.7419, 5.8805, 6.8612



54.2243, 57.0482, 62.1254



6.0569, 6.3724, 6.9395

Same Dimension

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



12.8234, 12.4953, 16.4880



21.8420, 20.9076, 28.7916



13.3275, 12.7669, 15.9866



3.4044, 3.3968, 4.2304



6.4447, 2.9318, 17.9478



31.1395, 14.1074, 89.3609

Inverse Universe

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



12.9627, 12.6209, 14.0655



22.1413, 21.1749, 23.7000



12.5986, 14.5183, 13.6612



3.4292, 3.4194, 3.7867



8.1575, 4.1554, 2.6395



40.2576, 20.5483, 11.1544

Previews

White Background



This preview shows how the XYZ color 12.8230, 12.4948, 16.4877 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 12.8230, 12.4948, 16.4877 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

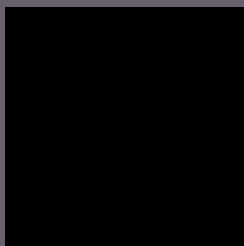
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.8230, 12.4948, 16.4877

Background



This preview shows how black text looks on a background with the XYZ color 12.8230, 12.4948, 16.4877.



This preview shows how white text looks on a background with the XYZ color 12.8230, 12.4948,

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

12.8230, 12.4948, 16.4877

Protanopia

12.2221, 12.4466, 17.0875

Deuteranopia

12.7063, 12.4346, 16.4823



Tritanopia

12.5334, 12.5124, 15.1191

Trichromacy



Original Color

12.8230, 12.4948, 16.4877

Protanomaly

12.3995, 12.4064, 16.7801

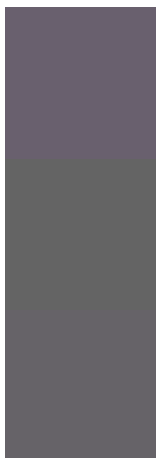
Deuteranomaly

12.7063, 12.4346, 16.4823

Tritanomaly

12.6375, 12.5540, 15.6670

Monochromacy



Original Color

12.8230, 12.4948, 16.4877

Achromatopsia

12.1130, 12.7438, 13.8780

Achromatomaly

12.4400, 12.7479, 14.9016

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8230, 12.4948, 16.4877 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(105, 96, 110)` looks like.

```
.text, #text, p{  
    color:rgb(105, 96, 110)  
}
```

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(105, 96, 110) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(105, 96, 110) }
```

Border

The CSS property to change the border of an element to XYZ 12.8230, 12.4948, 16.4877 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(105, 96, 110) }
```


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

```
.border{ border-color:rgb(105, 96, 110) }
```

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

Here you see how a box with a 4 pixel rgb(105, 96, 110) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(105, 96, 110); -webkit-box-  
shadow:4px 4px 4px 4px rgb(105, 96, 110);  
box-shadow:4px 4px 4px 4px rgb(105, 96,  
110) }
```

Background

The CSS property to change the background color of an element to XYZ 12.8230, 12.4948, 16.4877 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(105, 96, 110) }
```

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

```
.background{ background-color: rgb(105, 96,  
110) }
```

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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