

Converting Colors

XYZ(12.4294, 12.8438, 13.7417)

Have a look what the booklet for
XYZ(12.4294, 12.8438, 13.7417)
contains.

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Color

**XYZ(12.4028, 12.8988,
13.6404)**

Conversions

Conversions Part 1

Format	Color
Hex	676463
RGB	103, 100, 99
RGB Percent	40%, 39%, 39%
CMY	0.5961, 0.6078, 0.6118
CMYK	0.00, 0.03, 0.04, 0.60
HSL	15°, 2%, 40%
HSV	15°, 4%, 40%
XYZ	12.4028, 12.8988, 13.6404
YIQ	100.7830, 2.1090, 0.3250

Conversions

Conversions Part 2

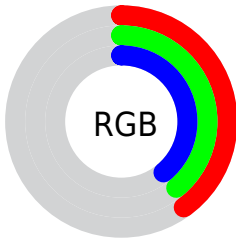
Format	Color
R_{YB}	103, 100, 99
Decimal	6775907
CIE _{Lab}	42.61, 0.98, 0.98
CIE _{LCh}	43, 1.383, 45.037
Yxy	12.8988, 0.3185, 0.3312
Android (android.graphics.Color)	4284965987 (0xFF676463)
YUV	100.7830, -0.8790, 1.9443
Hunter-Lab	35.9149, -1.2081, 2.6222

Details

The XYZ color **12.4028, 12.8988, 13.6404** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **12.3450, 13.1343, 14.7165**, and the grayscale version is **12.3158, 12.9572, 14.1104**.

A 20% lighter version of the original color is **29.8981, 31.2053, 33.3016**, and **3.5466, 3.6440, 3.8846** is the 20% darker color. If you saturate the color by 10%, you get **11.2360, 11.3034, 10.9750**, and if you desaturate by 10%, it is **13.7033, 14.6607, 16.6606**.

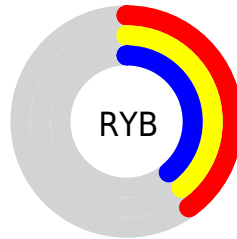
Distribution



Red (40%)

Green (39%)

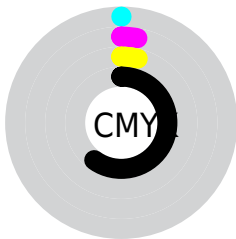
Blue (39%)



Red (40%)

Yellow (39%)

Blue (39%)

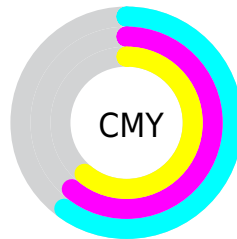


Cyan (0%)

Magenta (3%)

Yellow (4%)

Black (60%)



Cyan (60%)

Magenta (61%)

Yellow (61%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.4028, 12.8988, 13.6404 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 12.4028, 12.8988, 13.6404 by changing the saturation by 10% instead.

■ 12.4028, 12.8988,
13.6404

■ 12.4028, 12.8988,
13.6404

200.7699,
210.2681, 226.3322

■ 7.0928, 7.3589,
7.7351

■ 29.8372, 31.1219,
33.1575

■ 3.5670, 3.6875,
3.8406

■ 42.6922, 44.5738,
47.6064

■ 1.4602, 1.5004,
1.5383

■ 58.7930, 61.4319,
65.7402

■ 0.2985, 0.2890,
0.2462

■ 78.5048, 82.0805,
87.9775

■ 0.0000, 0.0000,
0.0000

102.1930,
106.9040, 114.7368

130.2231,

136.2868, 146.4366

162.9603,
170.6134, 183.4956

■ 12.4028, 12.8988,
13.6404

■ 12.4028, 12.8988,
13.6404

■ 11.2360, 11.3034,
10.9750

■ 13.7033, 14.6607,
16.6606

■ 10.1975, 9.8682,
8.6506

■ 15.1406, 16.5922,
20.0472

■ 9.2831, 8.5884,
6.6534

■ 16.7189, 18.6982,
23.8121

■ 8.4882, 7.4590,
4.9688

■ 18.4420, 20.9829,
27.9668

■ 7.8074, 6.4742,
3.5807

■ 20.3134, 23.4506,
32.5218

■ 7.2354, 5.6280,
2.4718

■ 22.3367, 26.1051,
37.4877

■ 6.7661, 4.9140,
1.6228

■ 24.5152, 28.9504,
42.8744

■ 6.3928, 4.3252,
1.0120

■ 26.8522, 31.9903,
48.6915

■ 6.1059, 3.8532,
0.6028

■ 29.3509, 35.2282,
54.9484

Harmonies

Analogous

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



12.4555, 12.8988, 13.8955



12.4028, 12.8988, 13.6404



12.3120, 12.8988, 13.4947

Triad

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



12.4028, 12.8988, 13.6404



12.0664, 12.8988, 13.8962



12.3123, 12.8988, 14.6091

Complementary

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



12.4028, 12.8988, 13.6404



12.3450, 13.1343, 14.7165

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.



12.2080, 12.8988, 14.6093



12.4028, 12.8988, 13.6404



12.0664, 12.8988, 14.1948

Square

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



12.4028, 12.8988, 13.6404



12.1180, 12.8988, 13.6409



12.1181, 12.8988, 14.4567



12.4030, 12.8988, 14.4562

Rectangle

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



12.4028, 12.8988, 13.6404



12.2422, 12.8988, 13.4778



12.1181, 12.8988, 14.4567



12.2776, 12.8988, 14.6271

Sweetspot

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



12.4032, 12.8994, 13.6407



22.8489, 23.9671, 25.9025



12.4537, 12.7667, 14.3783



5.5793, 5.8538, 6.3306



52.6788, 55.4222, 60.3547



5.6320, 5.9254, 6.4527

Same Dimension

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



12.4032, 12.8994, 13.6407



21.9321, 22.7203, 23.7873



12.5971, 13.2872, 13.7053



2.9836, 3.0889, 3.2288



7.4708, 4.4947, 0.4738



38.3570, 22.2278, 2.2688

Inverse Universe

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



12.3450, 13.1343, 14.7165



21.7952, 23.2735, 26.3206



12.1511, 12.7464, 14.6519



2.9642, 3.1671, 3.5871



6.4074, 7.8867, 17.3289



32.6990, 39.6947, 90.1398

Previews

White Background



This preview shows how the XYZ color 12.4028, 12.8988, 13.6404 looks on a white background.

Color Contrast Check

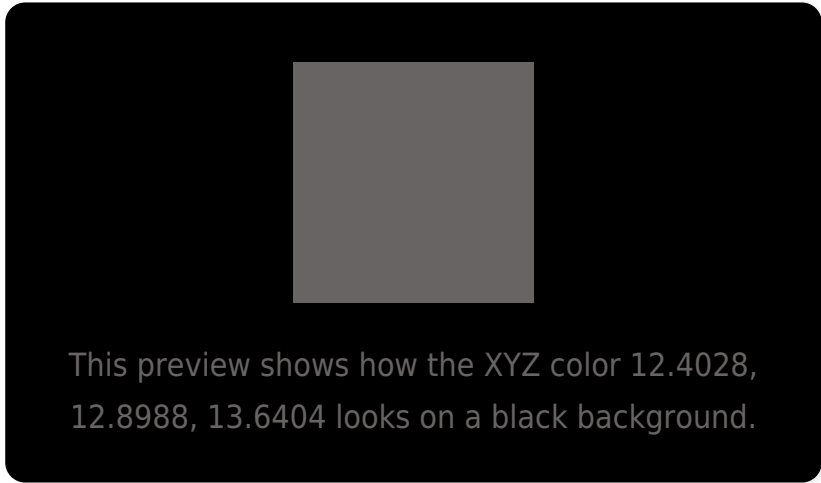
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

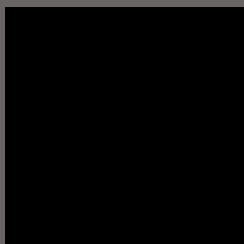
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

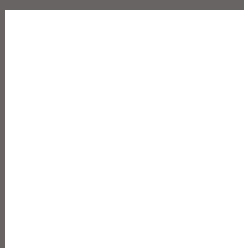
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.4028, 12.8988, 13.6404

Background



This preview shows how black text looks on a background with the XYZ color 12.4028, 12.8988, 13.6404.



This preview shows how white text looks on a background with the XYZ color 12.4028, 12.8988,

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

12.4028, 12.8988, 13.6404

Protanopia

12.4028, 12.8988, 13.6404

Deuteranopia

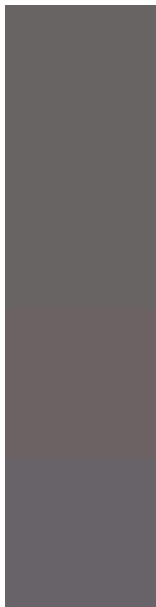
13.1305, 12.8490, 13.8446



Tritanopia

12.8246, 12.9283, 15.7294

Trichromacy



Original Color

12.4028, 12.8988, 13.6404

Protanomaly

12.4028, 12.8988, 13.6404

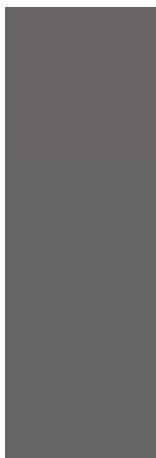
Deuteranomaly

12.8523, 12.8436, 13.8583

Tritanomaly

12.6695, 12.8662, 14.9124

Monochromacy



Original Color

12.4028, 12.8988, 13.6404

Achromatopsia

12.3695, 13.0136, 14.1719

Achromatomaly

12.4334, 13.0522, 13.9206

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.4028, 12.8988, 13.6404 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(103, 100, 99)` looks like.

```
.text, #text, p{  
    color:rgb(103, 100, 99)  
}
```

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(103, 100, 99) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(103, 100, 99) }
```

Border

The CSS property to change the border of an element to XYZ 12.4028, 12.8988, 13.6404 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(103, 100, 99) }
```


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

```
.border{ border-color:rgb(103, 100, 99) }
```

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

Here you see how a box with a 4 pixel `rgb(103, 100, 99)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(103, 100, 99); -webkit-box-  
shadow:4px 4px 4px 4px rgb(103, 100, 99);  
box-shadow:4px 4px 4px 4px rgb(103, 100,  
99) }
```

Background

The CSS property to change the background color of an element to XYZ 12.4028, 12.8988, 13.6404 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(103, 100, 99) }
```

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

```
.background{ background-color: rgb(103,  
100, 99) }
```

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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