

Converting Colors

XYZ(12.4029, 12.6503, 16.4402)

Have a look what the booklet for
XYZ(12.4029, 12.6503, 16.4402)
contains.

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Color

**XYZ(12.4219, 12.7021,
16.5489)**

Conversions

Conversions Part 1

Format	Color
Hex	63636E
RGB	99, 99, 110
RGB Percent	39%, 39%, 43%
CMY	0.6118, 0.6118, 0.5686
CMYK	0.10, 0.10, 0.00, 0.57
HSL	240°, 5%, 41%
HSV	240°, 10%, 43%
XYZ	12.4219, 12.7021, 16.5489
YIQ	100.2540, -3.5310, 3.4210

Conversions

Conversions Part 2

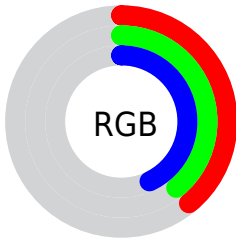
Format	Color
R_{YB}	99, 99, 110
Decimal	6513518
CIE Lab	42.31, 2.40, -6.20
CIE LCh	42, 6.645, 291.158
Yxy	12.7021, 0.2981, 0.3048
Android (android.graphics.Color)	4284703598 (0xFF63636E)
YUV	100.2540, 4.8048, -1.0998
Hunter-Lab	35.6400, -0.1560, -2.5824

Details

The XYZ color **12.4219, 12.7021, 16.5489** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **14.2585, 15.3676, 14.0194**, and the grayscale version is **12.1670, 12.8006, 13.9399**.

A 20% lighter version of the original color is **30.0056, 30.9054, 38.5663**, and **3.5588, 3.6241, 5.0694** is the 20% darker color. If you saturate the color by 10%, you get **10.3291, 10.1806, 16.1727**, and if you desaturate by 10%, it is **14.8211, 15.5930, 16.9806**.

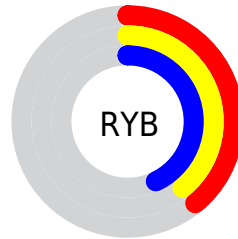
Distribution



Red (39%)

Green (39%)

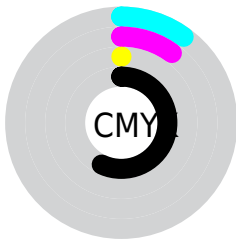
Blue (43%)



Red (39%)

Yellow (39%)

Blue (43%)

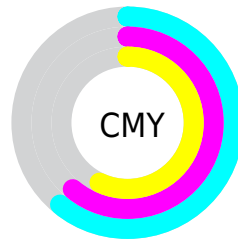


Cyan (10%)

Magenta (10%)

Yellow (0%)

Black (57%)



Cyan (61%)

Magenta (61%)

Yellow (57%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.4219, 12.7021, 16.5489 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 12.4219, 12.7021, 16.5489 by changing the saturation by 10% instead.

■ 12.4219, 12.7021,
16.5489

■ 12.4219, 12.7021,
16.5489

200.8921,
208.9995, 244.5145

■ 7.1059, 7.2237,
9.7549

■ 29.8714, 30.7675,
38.3285

■ 3.5754, 3.6024,
5.1332

■ 42.7357, 44.1234,
54.1511

■ 1.4648, 1.4537,
2.2656

■ 58.8468, 60.8739,
73.8204

■ 0.3017, 0.2558,
0.7118

■ 78.5701, 81.4034,
97.7547

■ 0.0000, 0.0000,
0.0000

102.2709,
106.0963, 126.3728

130.3146,

135.3371, 160.0931

163.0666,
169.5100, 199.3342

■ 12.4219, 12.7021,
16.5489

■ 12.4219, 12.7021,
16.5489

■ 10.3291, 10.1806,
16.1727

■ 14.8211, 15.5930,
16.9806

■ 8.5294, 8.0120,
15.8490

■ 17.5372, 18.8656,
17.4692

■ 7.0099, 6.1812,
15.5757

■ 20.5815, 22.5336,
18.0167

■ 5.7566, 4.6711,
15.3503

■ 23.9645, 26.6097,
18.6252

■ 4.7542, 3.4633,
15.1700

■ 27.6962, 31.1059,
19.2964

■ 3.9859, 2.5374,
15.0317

■ 31.7861, 36.0338,
20.0320

■ 3.4325, 1.8706,
14.9322

■ 36.2435, 41.4043,
20.8337

■ 3.0723, 1.4366,
14.8674

■ 41.0772, 47.2283,
21.7030

■ 2.8147, 1.1261,
14.8211

■ 46.2958, 53.5160,
22.6416

Harmonies

Analogous

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



11.9264, 12.7021, 16.7211



12.4219, 12.7021, 16.5489



12.8343, 12.7021, 15.6227

Triad

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



12.4219, 12.7021, 16.5489



12.6836, 12.7021, 11.8025



11.1513, 12.7021, 13.4131

Complementary

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



12.4219, 12.7021, 16.5489



14.2585, 15.3676, 14.0194

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.



11.3424, 12.7021, 12.1807



12.4219, 12.7021, 16.5489



12.2208, 12.7021, 11.2937

Square

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



12.4219, 12.7021, 16.5489



12.9882, 12.7021, 12.8640



11.7306, 12.7021, 11.4273



11.2018, 12.7021, 14.8441

Rectangle

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



12.4219, 12.7021, 16.5489



13.0021, 12.7021, 14.7352



11.7306, 12.7021, 11.4273



11.1892, 12.7021, 12.9635

Sweetspot

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



12.4223, 12.7026, 16.5492



24.6724, 25.7500, 29.5771



13.5262, 14.9265, 16.8680



5.6724, 5.9091, 6.8704



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.



12.4223, 12.7026, 16.5492



20.9157, 21.2237, 28.9014



13.0223, 13.0118, 16.5772



3.2176, 3.3005, 4.2217



3.3812, 1.3527, 17.8045



16.8429, 6.7377, 88.6919

Inverse Universe

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



13.1447, 13.1398, 13.6484



22.4554, 22.1555, 22.7188



13.6169, 15.0371, 13.9894



3.3845, 3.4015, 3.5516



7.7250, 3.9824, 0.3619



38.4815, 19.8379, 1.8017

Previews

White Background



This preview shows how the XYZ color 12.4219, 12.7021, 16.5489 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 12.4219, 12.7021, 16.5489 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

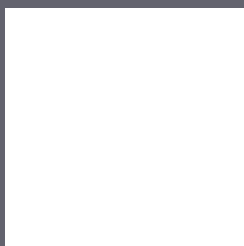
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.4219, 12.7021, 16.5489

Background



This preview shows how black text looks on a background with the XYZ color 12.4219, 12.7021, 16.5489.



This preview shows how white text looks on a background with the XYZ color 12.4219, 12.7021,

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

12.4219, 12.7021, 16.5489

Protanopia

12.4219, 12.7021, 16.5489

Deuteranopia

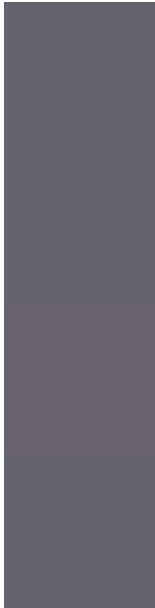
12.9149, 12.6784, 16.5183



Tritanopia

12.2613, 12.6379, 15.7030

Trichromacy



Original Color

12.4219, 12.7021, 16.5489

Protanomaly

12.4219, 12.7021, 16.5489

Deuteranomaly

12.7757, 12.7447, 16.5385

Tritanomaly

12.3142, 12.6590, 15.9818

Monochromacy



Original Color

12.4219, 12.7021, 16.5489

Achromatopsia

12.1130, 12.7438, 13.8780

Achromatomaly

12.3114, 12.8231, 14.9229

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.4219, 12.7021, 16.5489 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(99, 99, 110) looks like.

```
.text, #text, p{  
    color:rgb(99, 99, 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(99, 99, 110) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(99, 99, 110) }
```

Border

The CSS property to change the border of an element to XYZ 12.4219, 12.7021, 16.5489 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(99, 99, 110) }
```


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

```
.border{ border-color:rgb(99, 99, 110) }
```

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

Here you see how a box with a 4 pixel rgb(99, 99, 110) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(99, 99, 110); -webkit-box-  
shadow:4px 4px 4px 4px rgb(99, 99, 110);  
box-shadow:4px 4px 4px 4px rgb(99, 99,  
110) }
```

Background

The CSS property to change the background color of an element to XYZ 12.4219, 12.7021, 16.5489 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(99, 99, 110) }
```

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

```
.background{ background-color: rgb(99, 99,  
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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