

Converting Colors

XYZ(0.4653, 0.4347, 0.4842)

Have a look what the booklet for
XYZ(0.4653, 0.4347, 0.4842)
contains.

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Color

XYZ(0.4602, 0.4232, 0.4729)

Conversions

Conversions Part 1

Format	Color
Hex	120C0E
RGB	18, 12, 14
RGB Percent	7%, 5%, 5%
CMY	0.9294, 0.9529, 0.9451
CMYK	0.00, 0.33, 0.22, 0.93
HSL	340°, 20%, 6%
HSV	340°, 33%, 7%
XYZ	0.4602, 0.4232, 0.4729
YIQ	14.0220, 2.9340, 1.8940

Conversions

Conversions Part 2

Format	Color
RYB	18, 12, 14
Decimal	1182734
CIELab	3.82, 2.37, -0.17
CIElCh	4, 2.381, 355.828
Yxy	0.4232, 0.3393, 0.3120
Android (android.graphics.Color)	4279372814 (0xFF120C0E)
YUV	14.0220, -0.0108, 3.4887
Hunter-Lab	6.5054, 1.2429, 0.2438

Details

The XYZ color **0.4602, 0.4232, 0.4729** is a dark color, and the websafe version is hex **000000**. A complement of this color would be **0.4615, 0.5482, 0.5717**, and the grayscale version is **0.4181, 0.4399, 0.4790**.

A 20% lighter version of the original color is **4.0162, 4.0844, 4.4476**, and **0.0000, 0.0000, 0.0000** is the 20% darker color. If you saturate the color by 10%, you get **0.4316, 0.3785, 0.4244**, and if you desaturate by 10%, it is **0.4915, 0.4724, 0.5247**.

Distribution



Red (7%)

Green (5%)

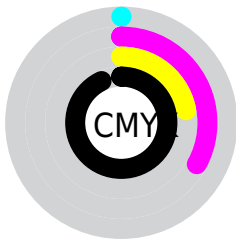
Blue (5%)



Red (7%)

Yellow (5%)

Blue (5%)



Cyan (0%)

Magenta (33%)

Yellow (22%)

Black (93%)



Cyan (93%)

Magenta (95%)

Yellow (95%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 0.4602, 0.4232, 0.4729 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 0.4602, 0.4232, 0.4729 by changing the saturation by 10% instead.

■ 0.4602, 0.4232,
0.4729

■ 0.4602, 0.4232,
0.4729

■ 81.8766, 84.8599,
92.6518

■ 0.0000, 0.0000,
0.0000

■ 4.0073, 4.0459,
4.4388

■ 7.7835, 7.9233,
8.6795

■ 13.4000, 13.7159,
15.0096

■ 21.2223, 21.8080,
23.8479

■ 31.6158, 32.5841,
35.6126

■ 44.9458, 46.4285,

50.7225

■ 61.5776, 63.7257,
69.5961

■ 0.4602, 0.4232,
0.4729

■ 0.4602, 0.4232,
0.4729

■ 0.4316, 0.3785,
0.4244

■ 0.4915, 0.4724,
0.5247

■ 0.4046, 0.3365,
0.3788

■ 0.5254, 0.5260,
0.5799

■ 0.3781, 0.2946,
0.3357

■ 0.5621, 0.5844,
0.6384

■ 0.3520, 0.2529,
0.2945

■ 0.6016, 0.6475,
0.7004

■ 0.3259, 0.2112,
0.2533

■ 0.6439, 0.7154,
0.7660

■ 0.2997, 0.1695,
0.2122

■ 0.6891, 0.7884,
0.8351

■ 0.2824, 0.1418,
0.1849

■ 0.7373, 0.8664,
0.9078

■ 0.7885, 0.9495,
0.9842

■ 0.8428, 1.0380,
1.0643

Harmonies

Analogous

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



0.4503, 0.4232, 0.5543



0.4602, 0.4232, 0.4729



0.4545, 0.4232, 0.3883

Triad

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



0.4602, 0.4232, 0.4729



0.3769, 0.4232, 0.3110



0.3696, 0.4232, 0.5985

Complementary

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



0.4602, 0.4232, 0.4729



0.4615, 0.5482, 0.5717

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.



0.3499, 0.4232, 0.5333



0.4602, 0.4232, 0.4729



0.3542, 0.4232, 0.3673

Square

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



0.4602, 0.4232, 0.4729



0.4065, 0.4232, 0.2948



0.3443, 0.4232, 0.4487



0.3980, 0.4232, 0.6268

Rectangle

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



0.4602, 0.4232, 0.4729



0.4427, 0.4232, 0.3414



0.3443, 0.4232, 0.4487



0.3617, 0.4232, 0.5802

Sweetspot

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



0.4602, 0.4232, 0.4729



0.7534, 0.7610, 0.8373



0.4526, 0.4159, 0.6288



0.3493, 0.3540, 0.3892



25.0241, 26.3273, 28.6705



0.3741, 0.3936, 0.4286

Same Dimension

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



0.4602, 0.4232, 0.4729



0.6060, 0.5294, 0.5937



0.4585, 0.4404, 0.4086



0.2795, 0.2860, 0.3138



2.9920, 1.5226, 1.0369



25.2272, 12.8874, 6.4968

Inverse Universe

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



0.4602, 0.4232, 0.4729



0.6060, 0.5294, 0.5937



0.4628, 0.5259, 0.6495



0.2795, 0.2860, 0.3138



2.9920, 1.5226, 1.0369



25.2272, 12.8874, 6.4968

Previews

White Background



This preview shows how the XYZ color 0.4602, 0.4232, 0.4729 looks on a white background.

Color Contrast Check

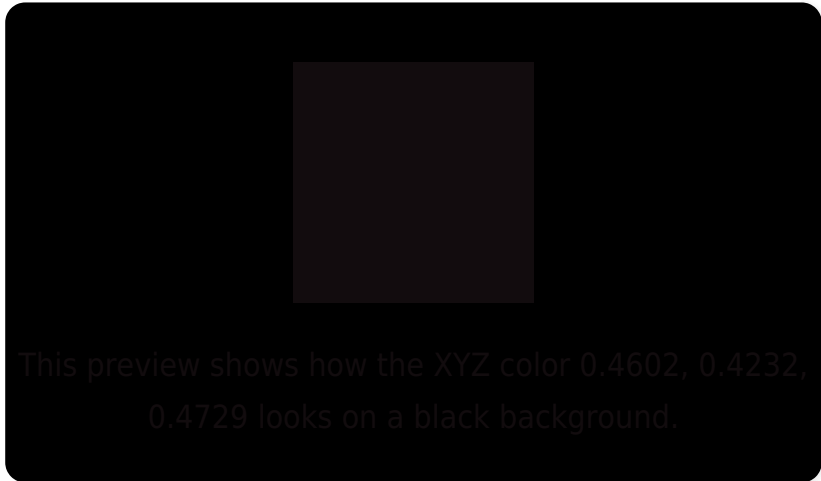
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

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 0.4602, 0.4232, 0.4729

Background



This preview shows how black text looks on a background with the XYZ color 0.4602, 0.4232, 0.4729.

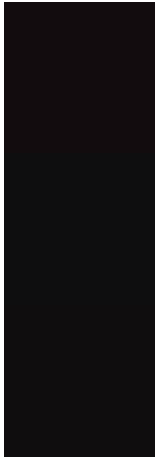


This preview shows how white text looks on a background with the XYZ color 0.4602, 0.4232, 0.4729.

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

0.4602, 0.4232, 0.4729

Protanopia

0.4244, 0.4419, 0.5149

Deuteranopia

0.4202, 0.4211, 0.4746



Tritanopia

0.4536, 0.4206, 0.4380

Trichromacy



Original Color

0.4602, 0.4232, 0.4729

Protanomaly

0.4271, 0.4239, 0.5112

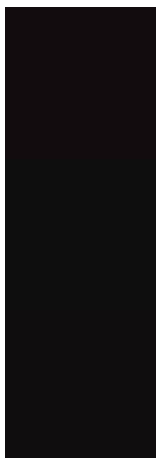
Deuteranomaly

0.4369, 0.4297, 0.4754

Tritanomaly

0.4536, 0.4206, 0.4380

Monochromacy



Original Color

0.4602, 0.4232, 0.4729

Achromatopsia

0.4174, 0.4391, 0.4782

Achromatomaly

0.4202, 0.4211, 0.4746

CSS Examples

Text

The CSS property to change the color of the text to XYZ 0.4602, 0.4232, 0.4729 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(18, 12, 14)` looks like.

```
.text, #text, p{  
    color:rgb(18, 12, 14)  
}
```

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(18, 12, 14) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(18, 12, 14) }
```

Border

The CSS property to change the border of an element to XYZ 0.4602, 0.4232, 0.4729 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(18, 12, 14) }
```

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

```
.border{ border-color:rgb(18, 12, 14) }
```

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

Here you see how a box with a 4 pixel rgb(18, 12, 14) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(18, 12, 14); -webkit-box-  
shadow:4px 4px 4px 4px rgb(18, 12, 14);  
box-shadow:4px 4px 4px 4px rgb(18, 12, 14)  
}
```


Background

The CSS property to change the background color of an element to XYZ 0.4602, 0.4232, 0.4729 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(18, 12, 14) }
```

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

```
.background{ background-color: rgb(18, 12,  
14) }
```

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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