

Converting Colors

XYZ(4.5580, 2.2516, 12.1777)

Have a look what the booklet for
XYZ(4.5580, 2.2516, 12.1777)
contains.

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Color

**XYZ(4.5888, 2.2610,
12.2512)**

Conversions

Conversions Part 1

Format	Color
Hex	410A64
RGB	65, 10, 100
RGB Percent	25%, 4%, 39%
CMY	0.7451, 0.9608, 0.6078
CMYK	0.35, 0.90, 0.00, 0.61
HSL	277°, 82%, 22%
HSV	277°, 90%, 39%
XYZ	4.5888, 2.2610, 12.2512
YIQ	36.7050, 3.8900, 39.6500

Conversions

Conversions Part 2

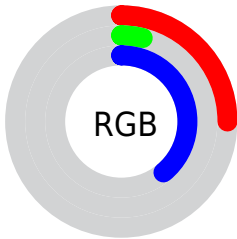
Format	Color
R_{YB}	65, 10, 100
Decimal	4262500
CIE _{Lab}	16.80, 40.68, -40.00
CIE _{LCh}	17, 57.050, 315.482
Yxy	2.2610, 0.2402, 0.1184
Android (android.graphics.Color)	4282452580 (0xFF410A64)
YUV	36.7050, 31.2044, 24.8147
Hunter-Lab	15.0366, 28.1596, -37.7813




Details

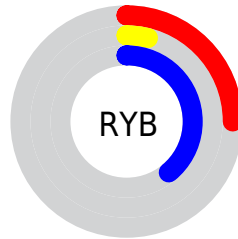
The XYZ color **4.5888, 2.2610, 12.2512** is a dark color, and the websafe version is hex **330066**. A complement of this color would be **5.6941, 9.6942, 1.8582**, and the grayscale version is **1.7093, 1.7983, 1.9583**.




A 20% lighter version of the original color is **14.6724, 9.3864, 30.7442**, and **0.8335, 0.3581, 3.2740** is the 20% darker color. If you saturate the color by 10%, you get **4.2317, 1.9158, 12.2034**, and if you desaturate by 10%, it is **4.9969, 2.6816, 12.3109**.

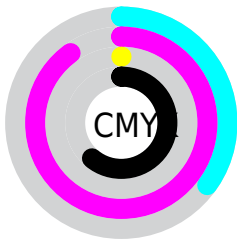
Distribution







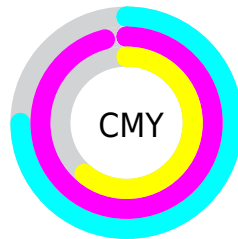
-  Red (25%)
-  Green (4%)
-  Blue (39%)






-  Red (25%)
-  Yellow (4%)
-  Blue (39%)



-  Cyan (35%)
-  Magenta (90%)
-  Yellow (0%)
-  Black (61%)



-  Cyan (75%)
-  Magenta (96%)
-  Yellow (61%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 4.5888, 2.2610, 12.2512 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 4.5888, 2.2610, 12.2512 by changing the saturation by 10% instead.

4.5888, 2.2610,
12.2512

4.5888, 2.2610,
12.2512

140.8125,
118.6411, 217.0979

2.0403, 0.7529,
6.7904

14.6807, 9.4311,
30.6230

0.6565, 0.0000,
3.2549

22.9549, 15.8684,
44.3711

0.0000, 0.0000,
1.2262

33.8684, 24.7197,
61.7186

0.0000, 0.0000,
0.0001

47.7865, 36.3696,
83.0843

0.0000, 0.0000,
0.0000

65.0746, 51.2022,
108.8864

86.0981, 69.6021,

139.5437

111.2222, 91.9536,
175.4747

4.5888, 2.2610,
12.2512

4.5888, 2.2610,
12.2512

4.2317, 1.9158,
12.2034

4.9969, 2.6816,
12.3109

5.4955, 3.2565,
12.3956

6.0929, 4.0017,
12.5080

6.7964, 4.9311,
12.6503

7.6123, 6.0573,
12.8246

■ 8.5466, 7.3915,
13.0329

■ 9.6049, 8.9442,
13.2769

■ 10.7921, 10.7253,
13.5581

■ 12.1130, 12.7438,
13.8781

Harmonies

Analogous

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



2.9209, 2.2610, 18.8840



4.5888, 2.2610, 12.2512



5.7792, 2.2610, 4.8416

Triad

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



4.5888, 2.2610, 12.2512



2.8693, 2.2610, 0.0000



0.4257, 2.2610, 5.0342

Complementary

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



4.5888, 2.2610, 12.2512



5.6941, 9.6942, 1.8582

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.



0.4197, 2.2610, 1.0267



4.5888, 2.2610, 12.2512



1.5267, 2.2610, 0.0000

Square

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



4.5888, 2.2610, 12.2512



4.5377, 2.2610, 0.0000



0.7748, 2.2610, 0.0000



0.7914, 2.2610, 12.5115

Rectangle

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



4.5888, 2.2610, 12.2512



5.9180, 2.2610, 1.8165



0.7748, 2.2610, 0.0000



0.3816, 2.2610, 3.2444

Sweetspot

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



4.5889, 2.2611, 12.2513



15.3743, 13.5262, 22.9372



3.4024, 2.9386, 12.4446



3.6817, 3.1811, 5.6207



51.1593, 53.8236, 58.6138



5.2251, 5.4972, 5.9864

Same Dimension

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



4.5889, 2.2611, 12.2513



7.2970, 3.2959, 21.3883



7.2525, 3.6818, 10.2260



2.8381, 2.8386, 3.5303



5.6151, 2.5389, 16.3384



28.2858, 12.7261, 85.1670

Inverse Universe

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



5.8377, 3.1159, 2.7762



9.8017, 4.9850, 3.5283



4.7999, 9.2260, 2.1439



2.8694, 2.8624, 3.1850



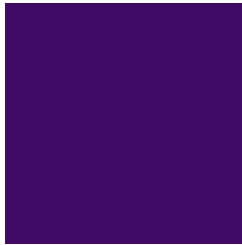
7.5038, 3.8145, 2.7855



38.7333, 19.7333, 12.4049

Previews

White Background



This preview shows how the XYZ color 4.5888, 2.2610, 12.2512 looks on a white background.

Color Contrast Check

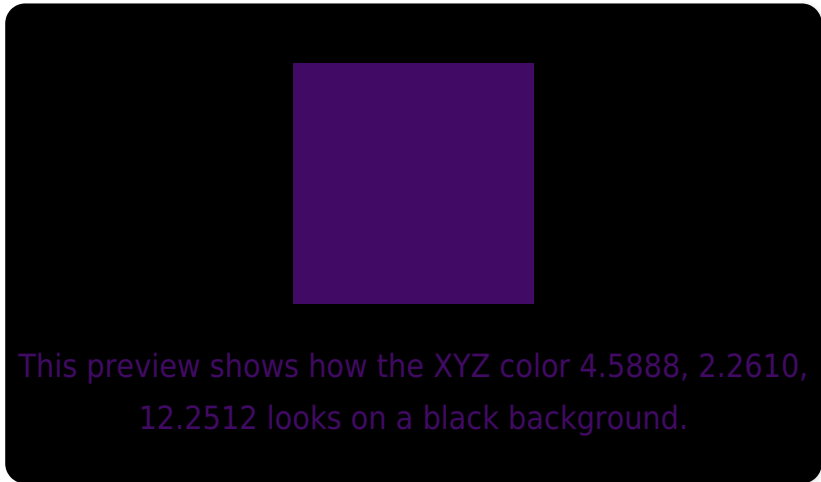
Large Text (above 18pt) WCAG AA ✓ Pass

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

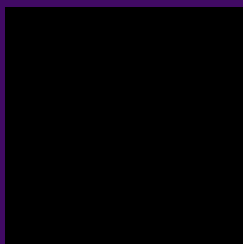
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 4.5888, 2.2610, 12.2512

Background



This preview shows how black text looks on a background with the XYZ color 4.5888, 2.2610, 12.2512.



This preview shows how white text looks on a background with the XYZ color 4.5888, 2.2610,

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

4.5888, 2.2610, 12.2512

Protanopia

2.6311, 2.3772, 9.7714

Deuteranopia

2.2779, 2.4126, 7.3668



Tritanopia

2.7162, 2.4763, 2.6203

Trichromacy



Original Color

4.5888, 2.2610, 12.2512

Protanomaly

2.8167, 1.9131, 10.5767

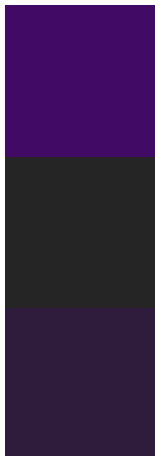
Deuteranomaly

2.5329, 1.8831, 8.8243

Tritanomaly

3.1097, 2.1484, 5.1013

Monochromacy



Original Color

4.5888, 2.2610, 12.2512

Achromatopsia

1.7584, 1.8500, 2.0147

Achromatomaly

2.3798, 1.7144, 4.4805

CSS Examples

Text

The CSS property to change the color of the text to XYZ 4.5888, 2.2610, 12.2512 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(65, 10, 100)` looks like.

```
.text, #text, p{  
    color:rgb(65, 10, 100)  
}
```

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(65, 10, 100) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(65, 10, 100) }
```

Border

The CSS property to change the border of an element to XYZ 4.5888, 2.2610, 12.2512 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(65, 10, 100) }
```


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

```
.border{ border-color:rgb(65, 10, 100) }
```

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

Here you see how a box with a 4 pixel rgb(65, 10, 100) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(65, 10, 100); -webkit-box-  
shadow:4px 4px 4px 4px rgb(65, 10, 100);  
box-shadow:4px 4px 4px 4px rgb(65, 10,  
100) }
```

Background

The CSS property to change the background color of an element to XYZ 4.5888, 2.2610, 12.2512 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(65, 10, 100) }
```

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

```
.background{ background-color: rgb(65, 10,  
100) }
```

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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