

Converting Colors

XYZ(12.4231, 12.8703, 3.4952)

Have a look what the booklet for
XYZ(12.4231, 12.8703, 3.4952)
contains.

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Color

**XYZ(12.4318, 12.8558,
3.4953)**

Conversions

Conversions Part 1

Format	Color
Hex	786224
RGB	120, 98, 36
RGB Percent	47%, 38%, 14%
CMY	0.5294, 0.6157, 0.8588
CMYK	0.00, 0.18, 0.70, 0.53
HSL	44°, 54%, 31%
HSV	44°, 70%, 47%
XYZ	12.4318, 12.8558, 3.4953
YIQ	97.5100, 33.0140, -14.6180

Conversions

Conversions Part 2

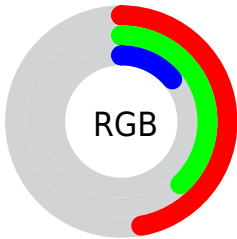
Format	Color
RYB	66, 120, 36
Decimal	7889444
CIELab	42.55, 1.46, 37.38
CIELCh	43, 37.405, 87.769
Yxy	12.8558, 0.4319, 0.4466
Android (android.graphics.Color)	4286079524 (0xFF786224)
YUV	97.5100, -30.3244, 19.7237
Hunter-Lab	35.8550, -0.8559, 19.3186

Details

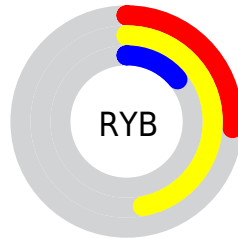
The XYZ color **12.4318, 12.8558, 3.4953** is a dark color, and the websafe version is hex **666633**. A complement of this color would be **5.6307, 4.7571, 18.3905**, and the grayscale version is **11.5552, 12.1569, 13.2389**.

A 20% lighter version of the original color is **29.8693, 30.9339, 12.7841**, and **3.6822, 3.7212, 0.5242** is the 20% darker color. If you saturate the color by 10%, you get **11.9902, 12.2184, 2.5907**, and if you desaturate by 10%, it is **12.9470, 13.5421, 4.7281**.

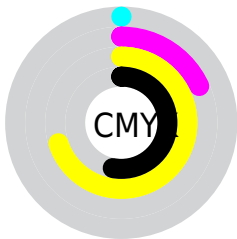
Distribution



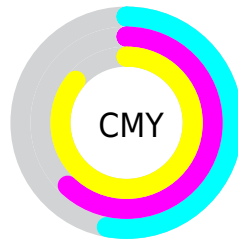
- Red (47%)
- Green (38%)
- Blue (14%)



- Red (26%)
- Yellow (47%)
- Blue (14%)



- Cyan (0%)
- Magenta (18%)
- Yellow (70%)
- Black (53%)



- Cyan (53%)
- Magenta (62%)
- Yellow (86%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.4318, 12.8558, 3.4953 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 12.4318, 12.8558, 3.4953 by changing the saturation by 10% instead.

■ 12.4318, 12.8558,
3.4953

■ 12.4318, 12.8558,
3.4953

200.9554,
209.9914, 142.4386

■ 7.1128, 7.3293,
1.3528

■ 29.8892, 31.0445,
12.8280

■ 3.5797, 3.6689,
0.1045

■ 42.7583, 44.4755,
20.8552

■ 1.4672, 1.4901,
0.0000

■ 58.8748, 61.3101,
31.6810

■ 0.3034, 0.2818,
0.0000

■ 78.6040, 81.9327,
45.7240

■ 0.0000, 0.0000,
0.0000

■ 102.3113,
106.7278, 63.4027

■ 130.3621,

136.0797, 85.1357

163.1217,
170.3728, 111.3415

12.4318, 12.8558,
3.4953

12.4318, 12.8558,
3.4953

11.9902, 12.2184,
2.5907

12.9470, 13.5421,
4.7281

11.6148, 11.6252,
1.9796

13.5407, 14.2780,
6.3175

11.2829, 11.0675,
1.5416

14.2181, 15.0663,
8.2900

11.2828, 11.0674,
1.5415

14.9839, 15.9090,
10.6689

15.8423, 16.8080,
13.4761

■ 16.7972, 17.7652,
16.7316

■ 17.8523, 18.7820,
20.4543

■ 19.0112, 19.8602,
24.6618

■ 20.2771, 21.0013,
29.3712

Harmonies

Analogous

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



15.3521, 12.8558, 4.5294



12.4318, 12.8558, 3.4953



9.8583, 12.8558, 4.2499

Triad

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



12.4318, 12.8558, 3.4953



8.0142, 12.8558, 22.5718



17.4158, 12.8558, 24.0456

Complementary

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



12.4318, 12.8558, 3.4953



5.6307, 4.7571, 18.3905

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.



14.9295, 12.8558, 32.7754



12.4318, 12.8558, 3.4953



9.5442, 12.8558, 31.7187

Square

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



12.4318, 12.8558, 3.4953



7.5541, 12.8558, 13.4007



12.0087, 12.8558, 36.0160



18.4924, 12.8558, 14.6124

Rectangle

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



12.4318, 12.8558, 3.4953



8.6212, 12.8558, 5.9274



12.0087, 12.8558, 36.0160



16.7000, 12.8558, 27.2783

Sweetspot

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



12.4321, 12.8564, 3.4956



27.6244, 29.3165, 22.9037



9.1505, 5.5645, 4.6485



6.4659, 6.8640, 5.1610



59.0181, 62.0916, 67.6177



7.4413, 7.8288, 8.5256

Same Dimension

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



12.4321, 12.8564, 3.4956



20.6757, 20.8490, 3.8479



12.3347, 16.2923, 4.1639



4.2232, 4.4648, 4.2637



12.2973, 12.0504, 1.6778



57.9392, 56.0419, 7.7634

Inverse Universe

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



5.6307, 4.7571, 18.3905



7.9301, 5.7289, 31.9409



5.6298, 3.4473, 18.1377



3.8751, 4.0485, 5.0204



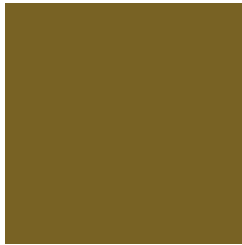
4.2346, 2.5516, 19.6546



19.5966, 10.9658, 93.5536

Previews

White Background



This preview shows how the XYZ color 12.4318, 12.8558, 3.4953 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 12.4318, 12.8558, 3.4953 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

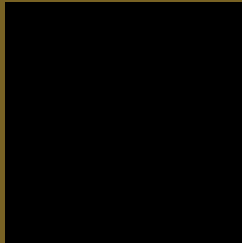
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.4318, 12.8558, 3.4953

Background



This preview shows how black text looks on a background with the XYZ color 12.4318, 12.8558, 3.4953.



This preview shows how white text looks on a background with the XYZ color 12.4318, 12.8558,

3.4953.

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

12.4318, 12.8558, 3.4953

Protanopia

11.6697, 12.8857, 3.6224

Deuteranopia

13.1210, 12.9349, 3.5554



Tritanopia

14.5367, 12.9151, 13.5311

Trichromacy



Original Color

12.4318, 12.8558, 3.4953

Protanomaly

11.9613, 12.8928, 3.6084

Deuteranomaly

12.9208, 12.9680, 3.5723

Tritanomaly

13.4756, 12.7382, 8.5859

Monochromacy



Original Color

12.4318, 12.8558, 3.4953

Achromatopsia

11.6093, 12.2139, 13.3009

Achromatomaly

11.5815, 12.3075, 8.4218

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.4318, 12.8558, 3.4953 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(120, 98, 36)` looks like.

```
.text, #text, p{  
    color:rgb(120, 98, 36)  
}
```

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(120, 98, 36) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 98, 36) }
```

Border

The CSS property to change the border of an element to XYZ 12.4318, 12.8558, 3.4953 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(120, 98, 36) }
```


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

```
.border{ border-color:rgb(120, 98, 36) }
```

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

Here you see how a box with a 4 pixel rgb(120, 98, 36) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(120, 98, 36); -webkit-box-  
shadow:4px 4px 4px 4px rgb(120, 98, 36);  
box-shadow:4px 4px 4px 4px rgb(120, 98,  
36) }
```

Background

The CSS property to change the background color of an element to XYZ 12.4318, 12.8558, 3.4953 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(120, 98, 36) }
```

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

```
.background{ background-color: rgb(120, 98,  
36) }
```

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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