

Converting Colors

XYZ(9.9807, 12.3492, 2.3591)

Have a look what the booklet for
XYZ(9.9807, 12.3492, 2.3591)
contains.

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Color

**XYZ(9.9808, 12.3346,
2.3450)**

Conversions

Conversions Part 1

Format	Color
Hex	626710
RGB	98, 103, 16
RGB Percent	38%, 40%, 6%
CMY	0.6157, 0.5961, 0.9372
CMYK	0.05, 0.00, 0.84, 0.60
HSL	63°, 73%, 23%
HSV	63°, 84%, 40%
XYZ	9.9808, 12.3346, 2.3450
YIQ	91.5870, 24.9470, -28.1170

Conversions

Conversions Part 2

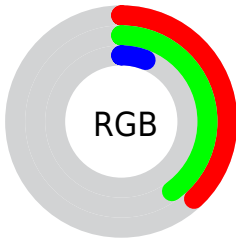
Format	Color
RYB	16, 103, 21
Decimal	6448912
CIELab	41.74, -13.00, 43.91
CIELCh	42, 45.796, 106.492
Yxy	12.3346, 0.4047, 0.5002
Android (android.graphics.Color)	4284638992 (0xFF626710)
YUV	91.5870, -37.2644, 5.6242
Hunter-Lab	35.1206, -10.7339, 20.6257

Details

The XYZ color **9.9808, 12.3346, 2.3450** is a dark color, and the websafe version is hex **666600**. A complement of this color would be **2.9431, 1.5096, 12.9690**, and the grayscale version is **10.1569, 10.6859, 11.6369**.

A 20% lighter version of the original color is **25.3615, 30.1079, 9.9435**, and **2.6331, 3.4567, 0.5284** is the 20% darker color. If you saturate the color by 10%, you get **9.8551, 12.2774, 2.0142**, and if you desaturate by 10%, it is **10.1416, 12.4068, 2.8555**.

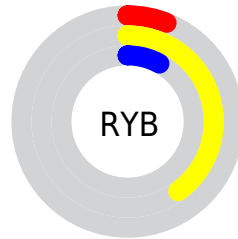
Distribution



Red (38%)

Green (40%)

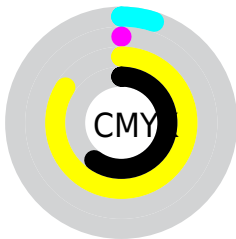
Blue (6%)



Red (6%)

Yellow (40%)

Blue (8%)

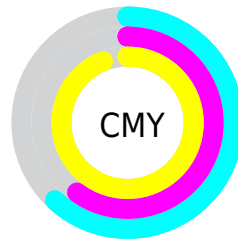


Cyan (5%)

Magenta (0%)

Yellow (84%)

Black (60%)



Cyan (62%)

Magenta (60%)

Yellow (94%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 9.9808, 12.3346, 2.3450 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 9.9808, 12.3346, 2.3450 by changing the saturation by 10% instead.

■ 9.9808, 12.3346,
2.3450

■ 9.9808, 12.3346,
2.3450

184.5915,
206.6080, 127.5229

■ 5.4484, 6.9720,
0.7563

■ 25.4094, 30.1031,
9.9642

■ 2.5501, 3.4446,
0.0000

■ 37.0363, 43.2777,
16.8463

■ 0.9206, 1.3680,
0.0000

■ 51.7587, 59.8251,
26.3349

■ 0.0000, 0.1930,
0.0000

■ 69.9420, 80.1297,
38.8484


■ 0.0000, 0.0000,
0.0000


■ 91.9516, 104.5759,
54.8054


■ 118.1528,


133.5481, 74.6245


 148.9110,
167.4307, 98.7241


 9.9808, 12.3346,
2.3450


 9.9808, 12.3346,
2.3450


 9.8551, 12.2774,
2.0142


 10.1416, 12.4068,
2.8555

 9.7888, 12.2468,
1.8480

 10.3441, 12.4952,
3.5846

 10.5926, 12.6022,
4.5535

 10.8907, 12.7290,
5.7808

 11.2414, 12.8769,
7.2831

■ 11.6478, 13.0472,
9.0758

■ 12.1125, 13.2408,
11.1730

■ 12.6380, 13.4588,
13.5880

■ 13.2267, 13.7021,
16.3331

Harmonies

Analogous

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



13.3012, 12.3346, 2.2678



9.9808, 12.3346, 2.3450



7.6285, 12.3346, 4.2849

Triad

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



9.9808, 12.3346, 2.3450



7.8089, 12.3346, 31.8560



19.2091, 12.3346, 18.2412

Complementary

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



9.9808, 12.3346, 2.3450



2.9431, 1.5096, 12.9690

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.



17.0716, 12.3346, 30.6574



9.9808, 12.3346, 2.3450



10.2761, 12.3346, 40.7137

Square

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



9.9808, 12.3346, 2.3450



6.5488, 12.3346, 19.4088



13.6585, 12.3346, 40.1926



19.0881, 12.3346, 8.8260

Rectangle

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



9.9808, 12.3346, 2.3450



6.7343, 12.3346, 7.3111



13.6585, 12.3346, 40.1926



18.7157, 12.3346, 22.2623

Sweetspot

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



9.9811, 12.3352, 2.3453



20.7573, 23.3199, 15.8124



5.9439, 3.4341, 0.8400



5.0168, 5.6697, 3.6474



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.



9.9811, 12.3352, 2.3453



17.4937, 21.9109, 3.3072



6.5281, 10.5551, 2.1837



3.0255, 3.2603, 3.0443



12.3050, 15.4021, 2.3244



63.9226, 80.1993, 12.1109

Inverse Universe

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



2.9431, 1.5096, 12.9690



4.4810, 1.8037, 23.0890



4.7385, 2.4351, 13.0530



2.7061, 2.7705, 3.5241



3.1627, 1.2746, 16.2237



16.2446, 6.5187, 84.6034

Previews

White Background



This preview shows how the XYZ color 9.9808, 12.3346, 2.3450 looks on a white background.

Color Contrast Check

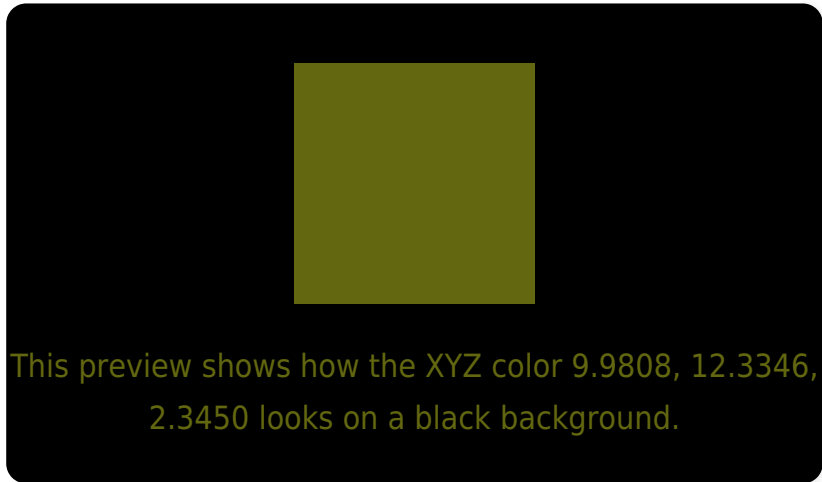
Large Text (above 18pt) WCAG AA ✓ Pass

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 9.9808, 12.3346, 2.3450

Background



This preview shows how black text looks on a background with the XYZ color 9.9808, 12.3346, 2.3450.



This preview shows how white text looks on a background with the XYZ color 9.9808, 12.3346,

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

9.9808, 12.3346, 2.3450

Protanopia

11.1036, 12.3377, 2.2481

Deuteranopia

12.3713, 12.1717, 2.4564



Tritanopia

12.4568, 12.3483, 14.5589

Trichromacy



Original Color

9.9808, 12.3346, 2.3450

Protanomaly

10.5873, 12.2130, 2.2513

Deuteranomaly

11.4712, 12.2447, 2.4207

Tritanomaly

11.0787, 12.2034, 7.7328

Monochromacy



Original Color

9.9808, 12.3346, 2.3450

Achromatopsia

10.1725, 10.7023, 11.6548

Achromatomaly

9.7244, 11.1156, 6.4835

CSS Examples

Text

The CSS property to change the color of the text to XYZ 9.9808, 12.3346, 2.3450 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(98, 103, 16)` looks like.

```
.text, #text, p{  
    color:rgb(98, 103, 16)  
}
```

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(98, 103, 16) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(98, 103, 16) }
```

Border

The CSS property to change the border of an element to XYZ 9.9808, 12.3346, 2.3450 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(98, 103, 16) }
```


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

```
.border{ border-color:rgb(98, 103, 16) }
```

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

Here you see how a box with a 4 pixel `rgb(98, 103, 16)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(98, 103, 16); -webkit-box-  
shadow:4px 4px 4px 4px rgb(98, 103, 16);  
box-shadow:4px 4px 4px 4px rgb(98, 103,  
16) }
```

Background

The CSS property to change the background color of an element to XYZ 9.9808, 12.3346, 2.3450 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(98, 103, 16) }
```

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

```
.background{ background-color: rgb(98, 103,  
16) }
```

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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