

Converting Colors

XYZ(12.3772, 20.8768, 7.2743)

Have a look what the booklet for
XYZ(12.3772, 20.8768, 7.2743)
contains.

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Color

**XYZ(12.3646, 20.8701,
7.2476)**

Conversions

Conversions Part 1

Format	Color
Hex	3B8F39
RGB	59, 143, 57
RGB Percent	23%, 56%, 22%
CMY	0.7686, 0.4392, 0.7765
CMYK	0.59, 0.00, 0.60, 0.44
HSL	119°, 43%, 39%
HSV	119°, 60%, 56%
XYZ	12.3646, 20.8701, 7.2476
YIQ	108.0800, -22.4580, -44.5540

Conversions

Conversions Part 2

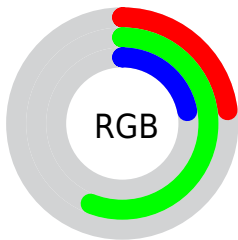
Format	Color
RYB	57, 143, 141
Decimal	3903289
CIELab	52.81, -43.23, 37.58
CIELCh	53, 57.283, 139.003
Yxy	20.8701, 0.3054, 0.5155
Android (android.graphics.Color)	4282093369 (0xFF3B8F39)
YUV	108.0800, -25.1824, -43.0432
Hunter-Lab	45.6838, -31.6345, 22.5725

Details

The XYZ color **12.3646, 20.8701, 7.2476** is a dark color, and the websafe version is hex **339933**. A complement of this color would be **17.4068, 10.5730, 27.1110**, and the grayscale version is **14.3497, 15.0970, 16.4407**.

A 20% lighter version of the original color is **29.9182, 45.0945, 21.0372**, and **3.8491, 7.6631, 1.3911** is the 20% darker color. If you saturate the color by 10%, you get **11.3371, 20.3766, 5.5925**, and if you desaturate by 10%, it is **13.7152, 21.5198, 9.4432**.

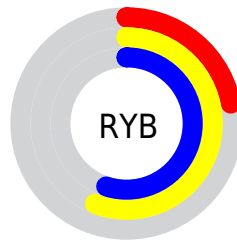
Distribution



Red (23%)

Green (56%)

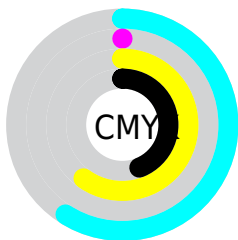
Blue (22%)



Red (22%)

Yellow (56%)

Blue (55%)

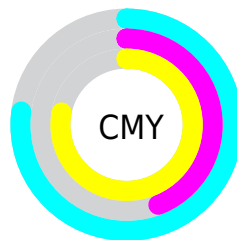


Cyan (59%)

Magenta (0%)

Yellow (60%)

Black (44%)



Cyan (77%)


Magenta (44%)


Yellow (78%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 12.3646, 20.8701, 7.2476 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 12.3646, 20.8701, 7.2476 by changing the saturation by 10% instead.


 12.3646, 20.8701,
7.2476


 12.3646, 20.8701,
7.2476


200.5253,
256.5873, 179.4138


 7.0665, 13.0291,
3.5366


 29.7686, 44.8712,
20.9909


 3.5504, 7.4486,
1.3748


 42.6051, 61.8002,
31.8603


 1.4511, 3.7442,
0.1219

 58.6851, 82.5272,
45.9530

 0.2922, 1.5315,
0.0000

 78.3740, 107.4367,
63.6874

 0.0000, 0.3108,
0.0000

 102.0371,
136.9130, 85.4822

 0.0000, 0.0000,
0.0000

 130.0398,

171.3407, 111.7558

162.7474,
211.1040, 142.9268

■ 12.3646, 20.8701,
7.2476

■ 12.3646, 20.8701,
7.2476

■ 11.3371, 20.3766,
5.5925

■ 13.7152, 21.5198,
9.4432

■ 10.6043, 20.0238,
4.4301

■ 15.4112, 22.3344,
12.2193

■ 10.1357, 19.7978,
3.7063

■ 17.4746, 23.3252,
15.6134

■ 9.8644, 19.6672,
3.2762

■ 19.9253, 24.5015,
19.6596

■ 22.7815, 25.8722,
24.3896

■ 26.0607, 27.4456,
29.8330

■ 29.7788, 29.2293,
36.0175

■ 33.9514, 31.2308,
42.9695

■ 38.5930, 33.4571,
50.7141

Harmonies

Analogous

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



16.3242, 20.8701, 3.6473



12.3646, 20.8701, 7.2476



10.5576, 20.8701, 17.0054

Triad

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



12.3646, 20.8701, 7.2476



17.7237, 20.8701, 72.7733



32.8093, 20.8701, 13.6023

Complementary

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



12.3646, 20.8701, 7.2476



17.4068, 10.5730, 27.1110

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.



33.3936, 20.8701, 29.5993



12.3646, 20.8701, 7.2476



23.8193, 20.8701, 70.2193

Square

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



12.3646, 20.8701, 7.2476



13.2113, 20.8701, 57.7225



29.8374, 20.8701, 51.8812



28.3723, 20.8701, 5.8339

Rectangle

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



12.3646, 20.8701, 7.2476



10.5120, 20.8701, 28.2742



29.8374, 20.8701, 51.8812



33.4920, 20.8701, 17.9522

Sweetspot

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



12.3651, 20.8710, 7.2481



36.5274, 44.2825, 36.6048



21.4647, 24.9313, 7.5522



8.0861, 10.0156, 7.9139



69.3244, 72.9347, 79.4259



10.7221, 11.2805, 12.2844

Same Dimension

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



12.3651, 20.8710, 7.2481



19.8016, 36.2490, 9.2163



13.6744, 21.3813, 14.7489



5.3537, 6.0350, 5.7721



8.7242, 17.3901, 2.8968



0.0853, 0.1672, 0.0278

Inverse Universe

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



17.4068, 10.5730, 27.1110



29.6496, 16.0903, 48.0811



15.2331, 9.7431, 13.8754



5.6140, 5.5047, 6.7954



13.9012, 6.6599, 23.5299



0.1354, 0.0650, 0.2251

Previews

White Background



This preview shows how the XYZ color 12.3646, 20.8701, 7.2476 looks on a white 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

Black Background



This preview shows how the XYZ color 12.3646, 20.8701, 7.2476 looks on a black 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

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

XYZ 12.3646, 20.8701, 7.2476

Background



This preview shows how black text looks on a background with the XYZ color 12.3646, 20.8701, 7.2476.



This preview shows how white text looks on a background with the XYZ color 12.3646, 20.8701,

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

12.3646, 20.8701, 7.2476

Protanopia

18.6009, 20.4041, 6.2068

Deuteranopia

20.8487, 20.4338, 7.6958



Tritanopia

16.8604, 20.7568, 29.9059

Trichromacy



Original Color

12.3646, 20.8701, 7.2476



Protanomaly

15.3475, 20.0839, 6.5577



Deuteranomaly

16.1692, 19.6972, 7.3646



Tritanomaly

14.5988, 20.4613, 18.8028

Monochromacy



Original Color

12.3646, 20.8701, 7.2476



Achromatopsia

14.2537, 14.9960, 16.3306



Achromatomaly

12.8570, 16.5697, 11.9718

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.3646, 20.8701, 7.2476 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(59, 143, 57)` looks like.

```
.text, #text, p{  
    color:rgb(59, 143, 57)  
}
```

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(59, 143, 57) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(59, 143, 57) }
```

Border

The CSS property to change the border of an element to XYZ 12.3646, 20.8701, 7.2476 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(59, 143, 57) }
```


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

```
.border{ border-color:rgb(59, 143, 57) }
```

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

Here you see how a box with a 4 pixel rgb(59, 143, 57) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(59, 143, 57); -webkit-box-  
shadow:4px 4px 4px 4px rgb(59, 143, 57);  
box-shadow:4px 4px 4px 4px rgb(59, 143,  
57) }
```

Background

The CSS property to change the background color of an element to XYZ 12.3646, 20.8701, 7.2476 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(59, 143, 57) }
```

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

```
.background{ background-color: rgb(59, 143,  
57) }
```

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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