

Converting Colors

XYZ(12.9937, 19.6801, 7.3045)

Have a look what the booklet for
XYZ(12.9937, 19.6801, 7.3045)
contains.

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Color

**XYZ(12.9869, 19.6734,
7.2505)**

Conversions

Conversions Part 1

Format	Color
Hex	51883B
RGB	81, 136, 59
RGB Percent	32%, 53%, 23%
CMY	0.6824, 0.4667, 0.7686
CMYK	0.40, 0.00, 0.57, 0.47
HSL	103°, 39%, 38%
HSV	103°, 57%, 53%
XYZ	12.9869, 19.6734, 7.2505
YIQ	110.7770, -8.0630, -35.6070

Conversions

Conversions Part 2

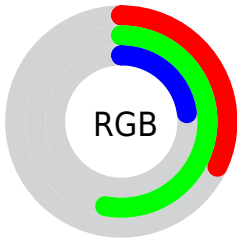
Format	Color
R_{YB}	59, 136, 114
Decimal	5343291
CIE _{Lab}	51.47, -33.27, 35.26
CIE _{LCh}	51, 48.477, 133.342
Yxy	19.6734, 0.3254, 0.4929
Android (android.graphics.Color)	4283533371 (0xFF51883B)
YUV	110.7770, -25.5261, -26.1144
Hunter-Lab	44.3547, -25.3566, 21.3564

Details

The XYZ color **12.9869, 19.6734, 7.2505** is a dark color, and the websafe version is hex **669933**. A complement of this color would be **12.9482, 8.4835, 24.2486**, and the grayscale version is **15.1185, 15.9058, 17.3214**.

A 20% lighter version of the original color is **31.0053, 42.9994, 21.1336**, and **3.8560, 6.9222, 1.3913** is the 20% darker color. If you saturate the color by 10%, you get **11.9055, 19.1521, 5.5926**, and if you desaturate by 10%, it is **14.2803, 20.2946, 9.3990**.

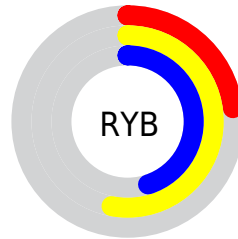
Distribution



Red (32%)

Green (53%)

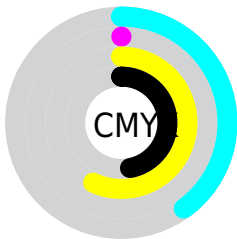
Blue (23%)



Red (23%)

Yellow (53%)

Blue (45%)

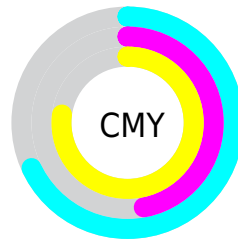


Cyan (40%)

Magenta (0%)

Yellow (57%)

Black (47%)



Cyan (68%)

Magenta (47%)

Yellow (77%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9869, 19.6734, 7.2505 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 12.9869, 19.6734, 7.2505 by changing the saturation by 10% instead.

12.9869, 19.6734,
7.2505

12.9869, 19.6734,
7.2505

204.4730,
250.1415, 179.4384

7.4965, 12.1579,
3.5384

30.8818, 42.8689,
20.9968

3.8235, 6.8513,
1.3757

44.0169, 59.3177,
31.8681

1.6028, 3.3693,
0.1227

60.4310, 79.5130,
45.9629

0.3942, 1.3274,
0.0000

80.4894, 103.8393,
63.6998

0.0000, 0.1623,
0.0000

104.5574,
132.6809, 85.4972

0.0000, 0.0000,
0.0000

133.0004,

166.4222, 111.7738

166.1839,
205.4476, 142.9480

■ 12.9869, 19.6734,
7.2505

■ 12.9869, 19.6734,
7.2505

■ 11.9055, 19.1521,
5.5926

■ 14.2803, 20.2946,
9.3990

■ 11.0224, 18.7226,
4.3853

■ 15.7956, 21.0182,
12.0713

■ 10.3241, 18.3797,
3.5844

■ 17.5437, 21.8497,
15.2994

■ 9.7904, 18.1144,
3.1125

■ 19.5342, 22.7935,
19.1120

■ 9.6358, 18.0376,
2.9738

■ 21.7763, 23.8537,
23.5363

■ 24.2786, 25.0343,
28.5974

■ 27.0495, 26.3390,
34.3192

■ 30.0966, 27.7712,
40.7243

■ 33.4276, 29.3345,
47.8343

Harmonies

Analogous

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



16.6229, 19.6734, 4.5007



12.9869, 19.6734, 7.2505



11.0946, 19.6734, 14.6245

Triad

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



12.9869, 19.6734, 7.2505



16.1444, 19.6734, 58.6868



29.3537, 19.6734, 15.8159

Complementary

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



12.9869, 19.6734, 7.2505



12.9482, 8.4835, 24.2486

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.



29.1650, 19.6734, 30.0517



12.9869, 19.6734, 7.2505



20.9411, 19.6734, 59.4754

Square

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



12.9869, 19.6734, 7.2505



12.6892, 19.6734, 45.5623



25.8798, 19.6734, 47.3984



26.3578, 19.6734, 7.7957

Rectangle

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



12.9869, 19.6734, 7.2505



10.8308, 19.6734, 23.0207



25.8798, 19.6734, 47.3984



29.6743, 19.6734, 19.8971

Sweetspot

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



12.9874, 19.6742, 7.2509



34.1447, 40.0350, 33.1378



16.8375, 17.3388, 6.5972



7.7638, 9.2036, 7.3960



65.7814, 69.2071, 75.3665



9.5508, 10.0482, 10.9424

Same Dimension

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



12.9874, 19.6742, 7.2509



20.5006, 33.5177, 9.1695



11.8579, 19.0388, 9.5997



5.0974, 5.6729, 5.3787



9.1279, 17.0756, 2.8148



0.0736, 0.1201, 0.0193

Inverse Universe

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



12.9482, 8.4835, 24.2486



20.3761, 11.7208, 42.2368



15.1447, 9.7333, 19.0422



5.0970, 5.0584, 6.3136



8.8961, 4.1002, 22.3682



0.0735, 0.0347, 0.1493

Previews

White Background



This preview shows how the XYZ color 12.9869, 19.6734, 7.2505 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 12.9869, 19.6734, 7.2505 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 12.9869, 19.6734, 7.2505

Background



This preview shows how black text looks on a background with the XYZ color 12.9869, 19.6734, 7.2505.



This preview shows how white text looks on a background with the XYZ color 12.9869, 19.6734,

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

12.9869, 19.6734, 7.2505

Protanopia

17.8025, 19.4291, 6.4263

Deuteranopia

19.7485, 19.3450, 7.5436



Tritanopia

16.9227, 19.6530, 26.9462

Trichromacy



Original Color

12.9869, 19.6734, 7.2505

Protanomaly

15.5056, 19.1773, 6.6257

Deuteranomaly

16.4099, 18.8737, 7.3355

Tritanomaly

14.9964, 19.4606, 17.4339

Monochromacy



Original Color

12.9869, 19.6734, 7.2505

Achromatopsia

15.1092, 15.8961, 17.3108

Achromatomaly

13.9038, 16.9150, 12.6573

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9869, 19.6734, 7.2505 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(81, 136, 59)` looks like.

```
.text, #text, p{  
    color:rgb(81, 136, 59)  
}
```

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(81, 136, 59) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(81, 136, 59) }
```

Border

The CSS property to change the border of an element to XYZ 12.9869, 19.6734, 7.2505 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(81, 136, 59) }
```


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

```
.border{ border-color:rgb(81, 136, 59) }
```

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

Here you see how a box with a 4 pixel `rgb(81, 136, 59)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(81, 136, 59); -webkit-box-  
shadow:4px 4px 4px 4px rgb(81, 136, 59);  
box-shadow:4px 4px 4px 4px rgb(81, 136,  
59) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9869, 19.6734, 7.2505 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(81, 136, 59) }
```

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

```
.background{ background-color: rgb(81, 136,  
59) }
```

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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