

Converting Colors

XYZ(23.7870, 42.5200, 9.7717)

Have a look what the booklet for
XYZ(23.7870, 42.5200, 9.7717)
contains.

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Color

**XYZ(23.7810, 42.5161,
9.7493)**

Conversions

Conversions Part 1

Format	Color
Hex	4AC730
RGB	74, 199, 48
RGB Percent	29%, 78%, 19%
CMY	0.7098, 0.2196, 0.8117
CMYK	0.63, 0.00, 0.76, 0.22
HSL	110°, 61%, 48%
HSV	110°, 76%, 78%
XYZ	23.7810, 42.5161, 9.7493
YIQ	144.4110, -26.0290, -73.4610

Conversions

Conversions Part 2

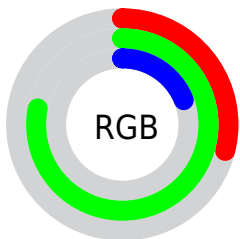
Format	Color
RYB	48, 199, 173
Decimal	4900656
CIELab	71.23, -60.91, 60.91
CIELCh	71, 86.139, 134.996
Yxy	42.5161, 0.3127, 0.5591
Android (android.graphics.Color)	4283090736 (0xFF4AC730)
YUV	144.4110, -47.5306, -61.7504
Hunter-Lab	65.2044, -49.0061, 36.7781

Details

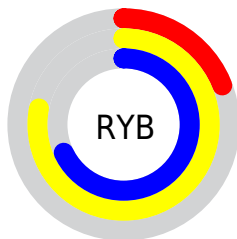
The XYZ color **23.7810, 42.5161, 9.7493** is a dark color, and the websafe version is hex **33CC33**. The color can be described as dark muted green. A complement of this color would be **28.6019, 15.1233, 55.4467**, and the grayscale version is **26.8699, 28.2692, 30.7852**.

A 20% lighter version of the original color is **48.6263, 77.8583, 25.8299**, and **9.9733, 19.9465, 3.3244** is the 20% darker color. If you saturate the color by 10%, you get **22.3527, 41.8183, 7.9989**, and if you desaturate by 10%, it is **25.7276, 43.4623, 12.4869**.

Distribution



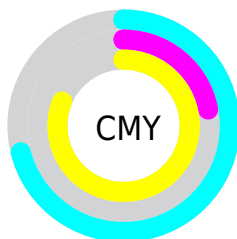
- Red (29%)
- Green (78%)
- Blue (19%)



- Red (19%)
- Yellow (78%)
- Blue (68%)



- Cyan (63%)
- Magenta (0%)
- Yellow (76%)
- Black (22%)





- Cyan (71%)
- Magenta (22%)
- Yellow (81%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 23.7810, 42.5161, 9.7493 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 23.7810, 42.5161, 9.7493 by changing the saturation by 10% instead.


 23.7810, 42.5161,
9.7493


 23.7810, 42.5161,
9.7493


264.1725,
356.6179, 199.2927


 15.2951, 29.5056,
5.1296


 49.1299, 78.9801,
25.9233

 9.1144, 19.4636,
2.2635


 66.7235, 103.2025,
38.3147

 4.8736, 12.0058,
0.7106


 88.0839, 131.9309,
54.1337

 2.2073, 6.7476,
0.0000

 113.5762,
165.5498, 73.7990

 0.7466, 3.3048,
0.0000

 143.5658,
204.4435, 97.7289

 0.0000, 1.2928,
0.0000

 178.4182,

 0.0000, 0.1356,

248.9965, 126.3422

0.0000

218.4986,
299.5932, 160.0572

■ 0.0000, 0.0000,
0.0000

■ 23.7810, 42.5161,
9.7493

■ 23.7810, 42.5161,
9.7493

■ 22.3527, 41.8183,
7.9989

■ 25.7276, 43.4623,
12.4869

■ 21.3858, 41.3390,
7.0877

■ 28.2351, 44.6726,
16.3251

■ 21.0926, 41.1931,
6.8394

■ 31.3446, 46.1673,
21.3648

■ 35.0929, 47.9634,
27.6950

■ 39.5132, 50.0763,
35.3961

■ 44.6369, 52.5205,
44.5421

■ 50.4931, 55.3096,
55.2015

■ 57.1093, 58.4564,
67.4385

■ 64.5116, 61.9730,
81.3138

Harmonies

Analogous

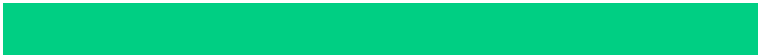
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



33.6408, 42.5161, 4.1271



23.7810, 42.5161, 9.7493



19.0810, 42.5161, 28.6024

Triad

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



23.7810, 42.5161, 9.7493



33.6378, 42.5161, 173.4761



73.6153, 42.5161, 28.6095

Complementary

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



23.7810, 42.5161, 9.7493



28.6019, 15.1233, 55.4467

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.



73.6139, 42.5161, 70.0904



23.7810, 42.5161, 9.7493



48.0319, 42.5161, 173.4824

Square

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



23.7810, 42.5161, 9.7493



23.7792, 42.5161, 128.3906



63.4024, 42.5161, 128.4047



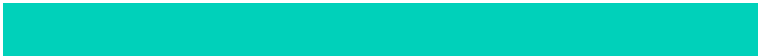
63.4058, 42.5161, 9.7518

Rectangle

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



23.7810, 42.5161, 9.7493



18.5754, 42.5161, 53.5720



63.4024, 42.5161, 128.4047



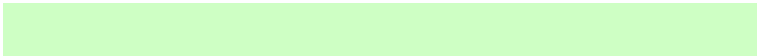
74.8760, 42.5161, 39.7048

Sweetspot

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



23.7820, 42.5179, 9.7502



71.3416, 88.7074, 65.7958



38.7114, 41.6032, 8.7868



14.6083, 18.6711, 12.9134



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

Same Dimension

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



23.7820, 42.5179, 9.7502



37.9576, 72.6351, 12.8274



23.7466, 42.3183, 17.9400



10.6649, 11.9742, 11.3119



13.6142, 26.5137, 4.4001



0.6988, 1.2833, 0.2109

Inverse Universe

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



28.6019, 15.1233, 55.4467



46.3948, 22.2857, 96.4640



30.2125, 16.4975, 30.9501



10.8970, 10.7207, 13.4125



16.6373, 7.8111, 35.3752



0.8364, 0.3949, 1.6773

Previews

White Background



This preview shows how the XYZ color 23.7810, 42.5161, 9.7493 looks on a white 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

Black Background



This preview shows how the XYZ color 23.7810, 42.5161, 9.7493 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 ✓ Pass

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

XYZ 23.7810, 42.5161, 9.7493

Background



This preview shows how black text looks on a background with the XYZ color 23.7810, 42.5161, 9.7493.



This preview shows how white text looks on a background with the XYZ color 23.7810, 42.5161,

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

23.7810, 42.5161, 9.7493

Protanopia

37.5919, 41.5166, 8.1300

Deuteranopia

42.4639, 41.4976, 10.3292



Tritanopia

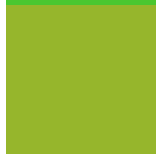
34.0476, 42.4137, 61.0358

Trichromacy



Original Color

23.7810, 42.5161, 9.7493



Protanomaly

29.7602, 40.1218, 8.5586



Deuteranomaly

31.7705, 39.6322, 9.8462



Tritanomaly

28.4610, 41.7388, 33.3444

Monochromacy



Original Color

23.7810, 42.5161, 9.7493



Achromatopsia

26.5089, 27.8894, 30.3716



Achromatomaly

23.6435, 31.5770, 19.3168

CSS Examples

Text

The CSS property to change the color of the text to XYZ 23.7810, 42.5161, 9.7493 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(74, 199, 48)` looks like.

```
.text, #text, p{  
    color:rgb(74, 199, 48)  
}
```

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(74, 199, 48) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(74, 199, 48) }
```

Border

The CSS property to change the border of an element to XYZ 23.7810, 42.5161, 9.7493 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(74, 199, 48) }
```


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

```
.border{ border-color:rgb(74, 199, 48) }
```

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

Here you see how a box with a 4 pixel `rgb(74, 199, 48)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(74, 199, 48); -webkit-box-  
shadow:4px 4px 4px 4px rgb(74, 199, 48);  
box-shadow:4px 4px 4px 4px rgb(74, 199,  
48) }
```

Background

The CSS property to change the background color of an element to XYZ 23.7810, 42.5161, 9.7493 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(74, 199, 48) }
```

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

```
.background{ background-color: rgb(74, 199,  
48) }
```

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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