

# Converting Colors

XYZ(46.0786, 59.1862, 41.4493)

Have a look what the booklet for  
XYZ(46.0786, 59.1862, 41.4493)  
contains.

<b>XYZ(45.9890, 59.0688, 41.3253)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(45.9890, 59.0688,  
41.3253)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A5D79E
RGB	165, 215, 158
RGB Percent	65%, 84%, 62%
CMY	0.3529, 0.1568, 0.3804
CMYK	0.23, 0.00, 0.27, 0.16
HSL	113°, 42%, 73%
HSV	113°, 27%, 84%
XYZ	45.9890, 59.0688, 41.3253
YIQ	193.5520, -11.5030, -28.3270

# Conversions

## Conversions Part 2

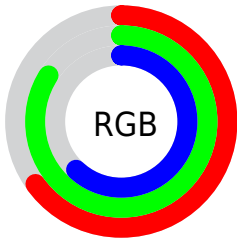
<b>Format</b>	<b>Color</b>
<b>RYB</b>	158, 215, 208
Decimal	10868638
CIELab	81.33, -26.99, 23.00
CIELCh	81, 35.465, 139.559
Yxy	59.0688, 0.3142, 0.4035
Android (android.graphics.Color)	4289058718 (0xFFA5D79E)
YUV	193.5520, -17.5271, -25.0401
Hunter-Lab	76.8562, -27.6881, 21.9194

# Details

The XYZ color **45.9890, 59.0688, 41.3253** is a light color, and the websafe version is hex **99CC99**. A complement of this color would be **50.5076, 42.7717, 69.8868**, and the grayscale version is **51.1198, 53.7820, 58.5686**.

A 20% lighter version of the original color is **77.5890, 91.6962, 76.5606**, and **21.8544, 29.6270, 18.2024** is the 20% darker color. If you saturate the color by 10%, you get **40.6603, 56.5189, 32.2461**, and if you desaturate by 10%, it is **52.2232, 62.0515, 52.1394**.

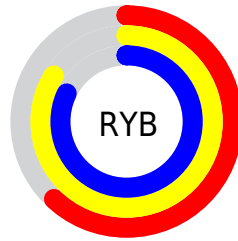
# Distribution



Red (65%)

Green (84%)

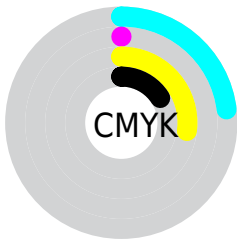
Blue (62%)



Red (62%)

Yellow (84%)

Blue (82%)

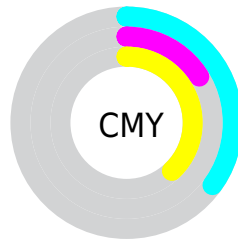


Cyan (23%)

Magenta (0%)

Yellow (27%)

Black (16%)



Cyan (35%)

Magenta (16%)


Yellow (38%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.9890, 59.0688, 41.3253 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 45.9890, 59.0688, 41.3253 by changing the saturation by 10% instead.




 45.9890, 59.0688,  
41.3253


 45.9890, 59.0688,  
41.3253


361.4811,  
421.1568, 367.3952

 32.4417, 42.6685,  
28.2517


 83.4305, 103.4777,  
78.4365

 21.8563, 29.6251,  
18.2748


 108.0554,  
132.2550, 103.3112

 13.8674, 19.5542,  
10.9760


137.1036,  
165.9268, 132.9567

 8.1096, 12.0714,  
5.9367

170.9405,  
204.8775, 167.7916

 4.2175, 6.7923,  
2.7385

209.9313,  
249.4915, 208.2343

 1.8259, 3.3326,  
0.9627

254.4414,

 0.5332, 1.3077,

300.1531, 254.7035

0.0000

304.8362,  
357.2467, 307.6176

■ 0.0000, 0.1472,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 45.9890, 59.0688,  
41.3253

■ 45.9890, 59.0688,  
41.3253

■ 40.6603, 56.5189,  
32.2461

■ 52.2232, 62.0515,  
52.1394

■ 36.1903, 54.3746,  
24.8079

■ 59.3975, 65.4779,  
64.7681

■ 32.5351, 52.6169,  
18.9139

■ 67.5505, 69.3680,  
79.2906

■ 29.6449, 51.2227,  
14.4554

■ 76.7172, 73.7380,  
95.7804

■ 27.4646, 50.1660,  
11.3099

■ 83.5916, 77.0832,  
105.0805

■ 25.9312, 49.4177,  
9.3342

■ 24.9691, 48.9426,  
8.3462

■ 24.7379, 48.8281,  
8.1210

# Harmonies

## Analogous

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



51.5102, 59.0688, 33.0354



45.9890, 59.0688, 41.3253



43.2724, 59.0688, 57.2053

# Triad

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



45.9890, 59.0688, 41.3253



53.6021, 59.0688, 113.3303



70.6570, 59.0688, 51.6078

# Complementary

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



45.9890, 59.0688, 41.3253



50.5076, 42.7717, 69.8868

# 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.



71.3420, 59.0688, 71.9925



45.9890, 59.0688, 41.3253



61.0459, 59.0688, 110.9004

# Square

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



45.9890, 59.0688, 41.3253



47.4044, 59.0688, 100.6097



67.6916, 59.0688, 94.5588



65.8948, 59.0688, 38.0055



# Rectangle

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



45.9890, 59.0688, 41.3253



43.2404, 59.0688, 71.3277



67.6916, 59.0688, 94.5588



71.3867, 59.0688, 57.7793

# Sweetspot

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



45.9905, 59.0713, 41.3266



85.6577, 95.5176, 92.2167



56.6083, 61.7382, 41.2817



17.9787, 20.2749, 19.1102



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

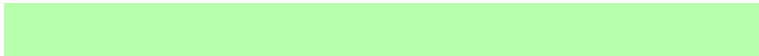


# Same Dimension

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



45.9905, 59.0713, 41.3266



62.9698, 84.6714, 52.7627



46.5294, 59.1233, 51.5560



12.4027, 13.9683, 13.2032



14.8434, 29.2284, 4.8593



0.9433, 1.7877, 0.2953



# Inverse Universe

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



50.5076, 42.7717, 69.8868



70.7200, 56.6699, 101.8188



50.0021, 42.8019, 56.7262



12.7960, 12.5517, 15.6858



19.8907, 9.4065, 39.2204

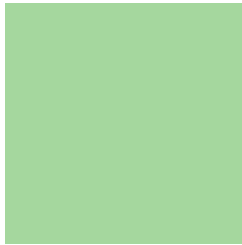


1.2428, 0.5896, 2.3676



# Previews

## White Background



This preview shows how the XYZ color 45.9890, 59.0688, 41.3253 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

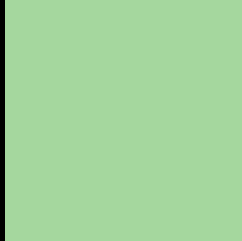
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.9890, 59.0688, 41.3253 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

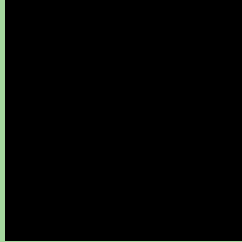
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 45.9890, 59.0688, 41.3253**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.9890, 59.0688, 41.3253.



This preview shows how white text looks on a background with the XYZ color 45.9890, 59.0688,



# 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

45.9890, 59.0688, 41.3253

### Protanopia

54.8730, 58.6392, 38.1321

### Deuteranopia

59.6125, 58.2767, 42.7569



## Tritanopia

53.5366, 59.1835, 78.4139

# Trichromacy



## Original Color

45.9890, 59.0688, 41.3253

## Protanomaly

50.9300, 58.3460, 39.1495

## Deuteranomaly

53.6142, 57.9018, 42.0686

## Tritanomaly

50.3687, 58.9874, 62.7638

# Monochromacy



## Original Color

45.9890, 59.0688, 41.3253

## Achromatopsia

51.2775, 53.9479, 58.7493

## Achromatomaly

48.9895, 55.6445, 51.8745

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.9890, 59.0688, 41.3253 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(165, 215, 158)` looks like.

```
.text, #text, p{  
    color:rgb(165, 215, 158)  
}
```

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(165, 215, 158) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(165, 215, 158) }
```

## Border

The CSS property to change the border of an element to XYZ 45.9890, 59.0688, 41.3253 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(165, 215, 158) }
```



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

```
.border{ border-color:rgb(165, 215, 158) }
```

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

Here you see how a box with a 4 pixel `rgb(165, 215, 158)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(165, 215, 158); -webkit-box-shadow:4px 4px 4px 4px rgb(165, 215, 158); box-shadow:4px 4px 4px 4px rgb(165, 215, 158) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.9890, 59.0688, 41.3253 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(165, 215, 158) }
```

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

```
.background{ background-color: rgb(165,  
215, 158) }
```

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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