

# Converting Colors

XYZ(46.7777, 63.7454, 45.6748)

Have a look what the booklet for  
XYZ(46.7777, 63.7454, 45.6748)  
contains.

<b>XYZ(46.8418, 63.7252, 45.9078)</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(46.8418, 63.7252,  
45.9078)**

# Conversions

## Conversions Part 1

Format	Color
Hex	97E2A6
RGB	151, 226, 166
RGB Percent	59%, 89%, 65%
CMY	0.4078, 0.1137, 0.3490
CMYK	0.33, 0.00, 0.27, 0.11
HSL	132°, 56%, 74%
HSV	132°, 33%, 89%
XYZ	46.8418, 63.7252, 45.9078
YIQ	196.7350, -25.4400, -34.5600

# Conversions

## Conversions Part 2

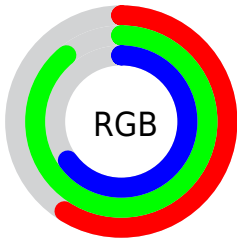
Format	Color
<a href="#">RYB</a>	<a href="#">151, 214, 226</a>
Decimal	<a href="#">9953958</a>
CIELab	<a href="#">83.82, -35.33, 22.14</a>
CIELCh	<a href="#">84, 41.689, 147.926</a>
Yxy	<a href="#">63.7252, 0.2994, 0.4073</a>
Android (android.graphics.Color)	<a href="#">4288144038 (0xFF97E2A6)</a>
YUV	<a href="#">196.7350, -15.1524, -40.1096</a>
Hunter-Lab	<a href="#">79.8281, -34.9582, 21.7829</a>

# Details

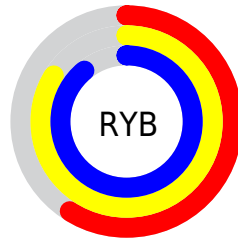
The XYZ color **46.8418, 63.7252, 45.9078** is a light color, and the websafe version is hex **99CC99**. A complement of this color would be **54.1906, 43.0065, 67.0754**, and the grayscale version is **53.0119, 55.7727, 60.7364**.

A 20% lighter version of the original color is **74.5433, 90.0059, 81.8506**, and **22.3418, 32.5057, 21.0163** is the 20% darker color. If you saturate the color by 10%, you get **41.4992, 61.1512, 37.6007**, and if you desaturate by 10%, it is **53.2249, 66.8123, 55.4836**.

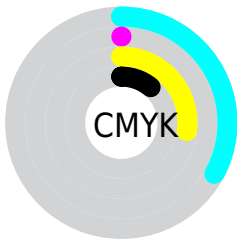
# Distribution



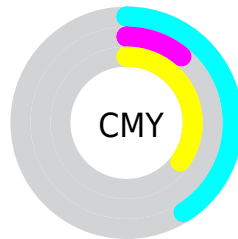
- Red (59%)
- Green (89%)
- Blue (65%)



- Red (59%)
- Yellow (84%)
- Blue (89%)



- Cyan (33%)
- Magenta (0%)
- Yellow (27%)
- Black (11%)




- Cyan (41%)
- Magenta (11%)
- Yellow (35%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.8418, 63.7252, 45.9078 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 46.8418, 63.7252, 45.9078 by changing the saturation by 10% instead.





 46.8418, 63.7252,  
45.9078

 46.8418, 63.7252,  
45.9078


364.8422,  
438.1966, 386.7047

 33.1180, 46.4281,  
31.8249


 84.6976, 110.2151,  
85.4138

 22.3765, 32.5838,  
20.9641


 109.5604,  
140.1767, 111.6741

 14.2520, 21.8078,  
12.9068


138.8668,  
175.1286, 142.8305

 8.3790, 13.7157,  
7.2344

172.9823,  
215.4552, 179.3017

 4.3922, 7.9232,  
3.5285

212.2723,  
261.5409, 221.5062

 1.9263, 4.0459,  
1.3704

257.1020,

 0.5921, 1.6993,

313.7702, 269.8624

0.1185

307.8368,  
372.5272, 324.7891

■ 0.0000, 0.4232,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 46.8418, 63.7252,  
45.9078

■ 46.8418, 63.7252,  
45.9078

■ 41.4992, 61.1512,  
37.6007

■ 53.2249, 66.8123,  
55.4836

■ 37.1364, 59.0546,  
30.5047

■ 60.6952, 70.4301,  
66.3736

■ 33.6939, 57.4078,  
24.5646

■ 69.3022, 74.6049,  
78.6267

■ 31.1036, 56.1770,  
19.7187

■ 79.0912, 79.3591,  
92.2876

■ 29.2875, 55.3235,  
15.8998

■ 86.4876, 82.8752,  
106.0459

■ 28.1527, 54.8007,  
13.0331

■ 27.6751, 54.5862,  
11.5805

# Harmonies

## Analogous

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



52.6921, 63.7252, 33.6904



46.8418, 63.7252, 45.9078



44.6234, 63.7252, 67.5772

# Triad

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



46.8418, 63.7252, 45.9078



59.9340, 63.7252, 132.9557



77.4941, 63.7252, 48.3495

# Complementary

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



46.8418, 63.7252, 45.9078



54.1906, 43.0065, 67.0754

# 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.



79.9216, 63.7252, 71.2266



46.8418, 63.7252, 45.9078



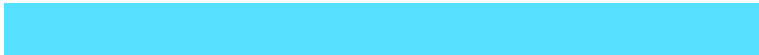
69.1940, 63.7252, 124.1504

# Square

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



46.8418, 63.7252, 45.9078



51.6928, 63.7252, 121.4806



76.7456, 63.7252, 99.7517



70.4069, 63.7252, 34.8303



# Rectangle

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



46.8418, 63.7252, 45.9078



45.3147, 63.7252, 86.0909



76.7456, 63.7252, 99.7517



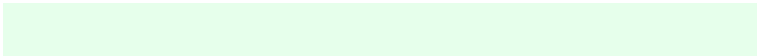
78.9115, 63.7252, 54.9950

# Sweetspot

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



46.8435, 63.7279, 45.9092



83.1705, 94.2354, 92.1003



59.6487, 70.4790, 39.7388



17.4712, 20.0099, 19.2397



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

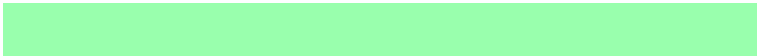


# Same Dimension

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



46.8435, 63.7279, 45.9092



56.4785, 81.3250, 52.4590



50.8000, 65.3105, 66.7438



13.6403, 15.3819, 15.1411



15.8217, 31.1535, 6.7843



1.1285, 2.1721, 0.6380



# Inverse Universe

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



54.1906, 43.0065, 67.0754



67.5689, 50.0175, 84.3876



50.0238, 41.3398, 45.1333



14.1714, 13.8862, 16.6727



22.6830, 11.1402, 26.0604

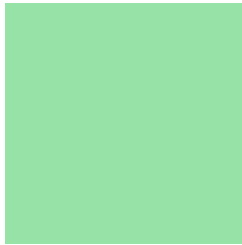


1.6025, 0.7843, 1.9656



# Previews

## White Background



This preview shows how the XYZ color 46.8418, 63.7252, 45.9078 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 46.8418, 63.7252, 45.9078 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

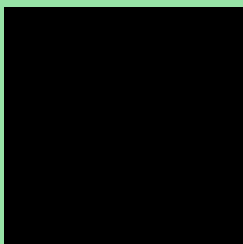
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

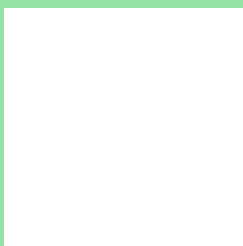
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 46.8418, 63.7252, 45.9078**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.8418, 63.7252, 45.9078.



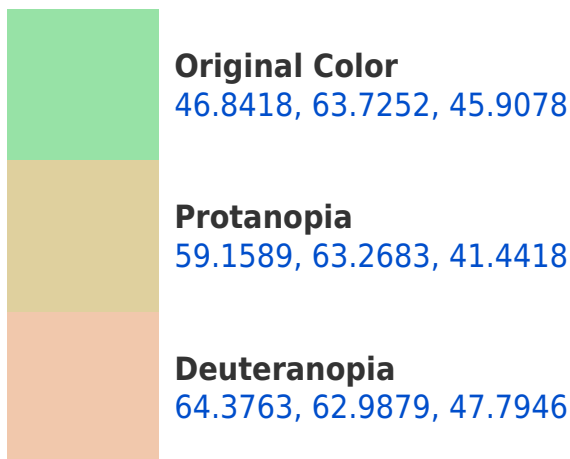
This preview shows how white text looks on a background with the XYZ color 46.8418, 63.7252,

45.9078.

# 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





## Tritanopia

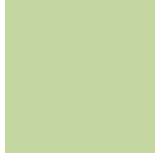
54.9740, 63.4587, 87.1932

# Trichromacy



## Original Color

46.8418, 63.7252, 45.9078



## Protanomaly

53.7594, 63.0444, 43.0536



## Deuteranomaly

56.0686, 61.9131, 47.0255



## Tritanomaly

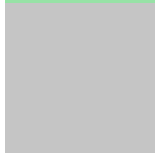
51.3999, 63.1608, 69.8038

# Monochromacy



## Original Color

46.8418, 63.7252, 45.9078



## Achromatopsia

53.0703, 55.8340, 60.8033



## Achromatomaly

50.2412, 58.3602, 55.0710

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.8418, 63.7252, 45.9078 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(151, 226, 166)` looks like.

```
.text, #text, p{  
    color:rgb(151, 226, 166)  
}
```

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(151, 226, 166) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(151, 226, 166) }
```

## Border

The CSS property to change the border of an element to XYZ 46.8418, 63.7252, 45.9078 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(151, 226, 166) }
```



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

```
.border{ border-color:rgb(151, 226, 166) }
```

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

Here you see how a box with a 4 pixel `rgb(151, 226, 166)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(151, 226, 166); -webkit-box-  
shadow:4px 4px 4px 4px rgb(151, 226, 166);  
box-shadow:4px 4px 4px 4px rgb(151, 226,  
166) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.8418, 63.7252, 45.9078 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(151, 226, 166) }
```

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

```
.background{ background-color: rgb(151,  
226, 166) }
```

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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