

# Converting Colors

XYZ(42.9204, 63.6288, 32.9426)

Have a look what the booklet for  
XYZ(42.9204, 63.6288, 32.9426)  
contains.

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# Color

**XYZ(42.9865, 63.6613,  
32.9439)**

# Conversions

## Conversions Part 1

Format	Color
Hex	89E687
RGB	137, 230, 135
RGB Percent	54%, 90%, 53%
CMY	0.4627, 0.0980, 0.4706
CMYK	0.40, 0.00, 0.41, 0.10
HSL	119°, 66%, 72%
HSV	119°, 41%, 90%
XYZ	42.9865, 63.6613, 32.9439
YIQ	191.3630, -24.9330, -49.2610

# Conversions

## Conversions Part 2

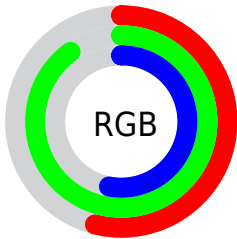
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	135, 230, 228
Decimal	9037447
CIELab	83.79, -46.33, 37.78
CIElCh	84, 59.783, 140.801
Yxy	63.6613, 0.3079, 0.4561
Android (android.graphics.Color)	4287227527 (0xFF89E687)
YUV	191.3630, -27.7870, -47.6764
Hunter-Lab	79.7880, -43.4606, 31.3712

# Details

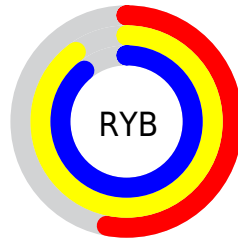
The XYZ color **42.9865, 63.6613, 32.9439** is a light color, and the websafe version is hex **99FF99**. A complement of this color would be **54.9450, 39.5372, 79.6019**, and the grayscale version is **49.9001, 52.4988, 57.1712**.

A 20% lighter version of the original color is **67.1934, 86.6635, 61.3304**, and **20.1296, 32.6615, 13.6309** is the 20% darker color. If you saturate the color by 10%, you get **38.2254, 61.3761, 25.1619**, and if you desaturate by 10%, it is **48.8708, 66.4889, 42.6070**.

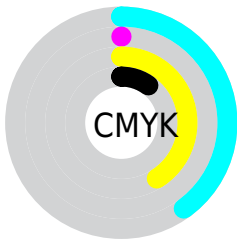
# Distribution



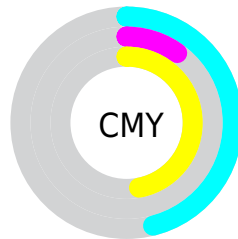
- Red (54%)
- Green (90%)
- Blue (53%)



- Red (53%)
- Yellow (90%)
- Blue (89%)



- Cyan (40%)
- Magenta (0%)
- Yellow (41%)
- Black (10%)




- Cyan (46%)
- Magenta (10%)
- Yellow (47%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.9865, 63.6613, 32.9439 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 42.9865, 63.6613, 32.9439 by changing the saturation by 10% instead.





 42.9865, 63.6613,  
32.9439

 42.9865, 63.6613,  
32.9439


349.4787,  
437.9655, 330.0211


 30.0690, 46.3764,  
21.8127


 78.9463, 110.1230,  
65.4029

 20.0393, 32.5430,  
13.5223


 102.7194,  
140.0686, 87.5679

 12.5320, 21.7765,  
7.6543


 130.8416,  
175.0032, 114.2478

 7.1819, 13.6928,  
3.7899

163.6785,  
215.3113, 145.8612

 3.6234, 7.9073,  
1.5108

201.5952,  
261.3771, 182.8267

 1.4914, 4.0357,  
0.2260


244.9573,

 0.3200, 1.6936,


313.5852, 225.5629

0.0000


294.1300,  
372.3199, 274.4881


 0.0000, 0.4195,  
0.0000


 0.0000, 0.0000,  
0.0000


 42.9865, 63.6613,  
32.9439


 42.9865, 63.6613,  
32.9439


 38.2254, 61.3761,  
25.1619


 48.8708, 66.4889,  
42.6070


 34.5117, 59.5911,  
19.1349


 55.9384, 69.8818,  
54.2583


 31.7678, 58.2713,  
14.7276


 64.2508, 73.8714,  
68.0015


 29.9034, 57.3734,  
11.7837

 73.8637, 78.4844,  
83.9323

 28.8111, 56.8461,  
10.1157

 84.8298, 83.7459,  
102.1401

 28.3587, 56.6274,  
9.4355

 87.5881, 85.0762,  
106.4127

# Harmonies

## Analogous

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



51.9834, 63.6613, 21.3348



42.9865, 63.6613, 32.9439



38.8636, 63.6613, 58.3949

# Triad

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



42.9865, 63.6613, 32.9439



56.5638, 63.6613, 167.9060



87.2906, 63.6613, 46.6925

# Complementary

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



42.9865, 63.6613, 32.9439



54.9450, 39.5372, 79.6019

# 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.



88.9868, 63.6613, 81.5210



42.9865, 63.6613, 32.9439



69.9174, 63.6613, 161.1793

# Square

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



42.9865, 63.6613, 32.9439



45.9222, 63.6613, 141.7433



82.2417, 63.6613, 125.7464



77.8955, 63.6613, 27.0457



# Rectangle

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



42.9865, 63.6613, 32.9439



38.9548, 63.6613, 83.7579



82.2417, 63.6613, 125.7464



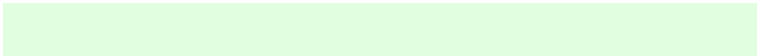
88.8285, 63.6613, 56.6382

# Sweetspot

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



42.9881, 63.6640, 32.9453



80.3338, 92.9381, 84.5106



64.4328, 73.4227, 33.6987



16.8831, 19.7430, 17.5731



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.



42.9881, 63.6640, 32.9453



48.8572, 77.8256, 32.6967



46.4610, 65.0157, 52.9272



14.2172, 16.1035, 15.2634



16.0671, 32.0644, 5.3422



1.1973, 2.3746, 0.3952



# Inverse Universe

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



54.9450, 39.5372, 79.6019



65.9645, 43.2832, 99.4855



50.1269, 37.6836, 50.9026



14.9636, 14.5990, 18.1735



25.7084, 12.3191, 43.4060

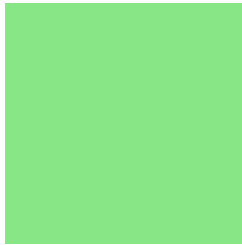


1.9094, 0.9153, 3.2080



# Previews

## White Background



This preview shows how the XYZ color 42.9865, 63.6613, 32.9439 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 42.9865, 63.6613, 32.9439 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 42.9865, 63.6613, 32.9439**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.9865, 63.6613, 32.9439.



This preview shows how white text looks on a background with the XYZ color 42.9865, 63.6613,

32.9439.

# 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

42.9865, 63.6613, 32.9439

### Protanopia

58.0003, 62.9490, 28.8321

### Deuteranopia

64.0173, 62.7563, 34.3303



## Tritanopia

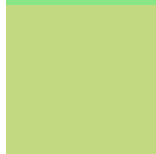
54.1164, 63.3670, 88.7357

# Trichromacy



## Original Color

42.9865, 63.6613, 32.9439



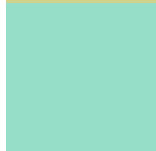
## Protanomaly

50.7664, 62.1660, 30.0924



## Deuteranomaly

53.7192, 61.3672, 33.4398



## Tritanomaly

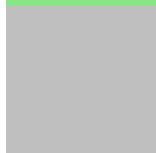
49.0078, 62.8501, 63.5811

# Monochromacy



## Original Color

42.9865, 63.6613, 32.9439



## Achromatopsia

49.5206, 52.0996, 56.7364



## Achromatomaly

45.9766, 55.2608, 46.7713

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.9865, 63.6613, 32.9439 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(137, 230, 135)` looks like.

```
.text, #text, p{  
    color:rgb(137, 230, 135)  
}
```

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(137, 230, 135) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(137, 230, 135) }
```

## Border

The CSS property to change the border of an element to XYZ 42.9865, 63.6613, 32.9439 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(137, 230, 135) }
```



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

```
.border{ border-color:rgb(137, 230, 135) }
```

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

Here you see how a box with a 4 pixel `rgb(137, 230, 135)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(137, 230, 135); -webkit-box-  
shadow:4px 4px 4px 4px rgb(137, 230, 135);  
box-shadow:4px 4px 4px 4px rgb(137, 230,  
135) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.9865, 63.6613, 32.9439 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(137, 230, 135) }
```

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

```
.background{ background-color: rgb(137,  
230, 135) }
```

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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