

# Converting Colors

XYZ(42.2677, 64.2694, 26.3972)

Have a look what the booklet for  
XYZ(42.2677, 64.2694, 26.3972)  
contains.

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# Color

**XYZ(42.2677, 64.2694,  
26.3972)**

# Conversions

## Conversions Part 1

Format	Color
Hex	89E873
RGB	137, 232, 115
RGB Percent	54%, 91%, 45%
CMY	0.4627, 0.0902, 0.5490
CMYK	0.41, 0.00, 0.50, 0.09
HSL	109°, 72%, 68%
HSV	109°, 50%, 91%
XYZ	42.2677, 64.2694, 26.3972
YIQ	190.2570, -19.0630, -56.5270

# Conversions

## Conversions Part 2

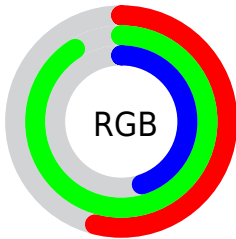
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">115, 232, 210</a>
Decimal	<a href="#">9037939</a>
CIELab	<a href="#">84.11, -49.85, 47.89</a>
CIELCh	<a href="#">84, 69.122, 136.147</a>
Yxy	<a href="#">64.2694, 0.3180, 0.4835</a>
Android (android.graphics.Color)	<a href="#">4287228019 (0xFF89E873)</a>
YUV	<a href="#">190.2570, -37.1017, -46.7064</a>
Hunter-Lab	<a href="#">80.1682, -46.1824, 36.5952</a>

# Details

The XYZ color **42.2677, 64.2694, 26.3972** is a light color, and the websafe version is hex **99FF99**. A complement of this color would be **47.2777, 31.7914, 79.9919**, and the grayscale version is **49.3083, 51.8762, 56.4932**.

A 20% lighter version of the original color is **65.4271, 85.9867, 50.6848**, and **19.7308, 33.1150, 10.0545** is the 20% darker color. If you saturate the color by 10%, you get **38.2743, 62.3480, 20.0972**, and if you desaturate by 10%, it is **47.1394, 66.6086, 34.4945**.

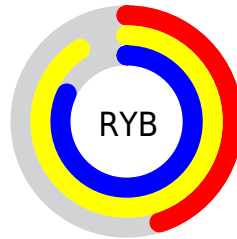
# Distribution



Red (54%)

Green (91%)

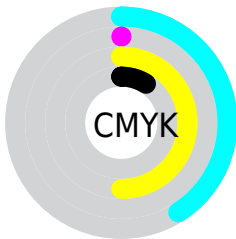
Blue (45%)



Red (45%)

Yellow (91%)

Blue (82%)

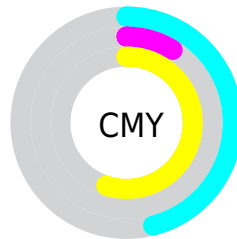


Cyan (41%)

Magenta (0%)

Yellow (50%)

Black (9%)



Cyan (46%)

Magenta (9%)


Yellow (55%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.2677, 64.2694, 26.3972 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 42.2677, 64.2694, 26.3972 by changing the saturation by 10% instead.





 42.2677, 64.2694,  
26.3972


 42.2677, 64.2694,  
26.3972


346.5642,  
440.1618, 298.3938


 29.5030, 46.8689,  
16.8926


 77.8672, 110.9988,  
54.9070

 19.6078, 32.9320,  
9.9968


 101.4328,  
141.0965, 74.7492

 12.2169, 22.0744,  
5.2913

 129.3293,  
176.1955, 98.8744

 6.9648, 13.9116,  
2.3574

161.9222,  
216.6800, 127.7011

 3.4862, 8.0592,  
0.7631

199.5768,  
262.9345, 161.6479

 1.4158, 4.1328,  
0.0000

242.6584,

 0.2674, 1.7481,

315.3434, 201.1332

0.0000

291.5324,  
374.2910, 246.5757

■ 0.0000, 0.4545,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 42.2677, 64.2694,  
26.3972

■ 42.2677, 64.2694,  
26.3972

■ 38.2743, 62.3480,  
20.0972

■ 47.1394, 66.6086,  
34.4945

■ 35.1008, 60.8115,  
15.4535


■ 52.9336, 69.3800,  
44.5072


■ 32.6887, 59.6351,  
12.3112


■ 59.6974, 72.6074,  
56.5487


■ 30.9692, 58.7873,  
10.4841

■ 67.4729, 76.3102,  
70.7221

 29.8803, 58.2429,  
9.6672

 76.3000, 80.5068,  
87.1235

 86.2162, 85.2147,  
105.8431

 88.1479, 86.1958,  
106.5993

# Harmonies

## Analogous

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



53.2801, 64.2694, 16.3028



42.2677, 64.2694, 26.3972



36.7867, 64.2694, 51.7172

# Triad

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



42.2677, 64.2694, 26.3972



54.3236, 64.2694, 187.4626



93.8462, 64.2694, 49.1039

# Complementary

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



42.2677, 64.2694, 26.3972



47.2777, 31.7914, 79.9919

# Split Complementary

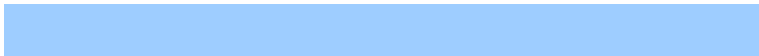
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



94.2519, 64.2694, 92.1000



42.2677, 64.2694, 26.3972



69.6196, 64.2694, 185.7866

# Square

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



42.2677, 64.2694, 26.3972



42.9214, 64.2694, 149.8020



84.7956, 64.2694, 145.8820



83.7653, 64.2694, 25.1736



# Rectangle

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



42.2677, 64.2694, 26.3972



36.3003, 64.2694, 79.3734



84.7956, 64.2694, 145.8820



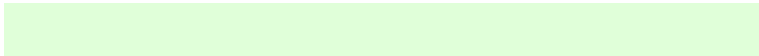
95.1695, 64.2694, 61.3557

# Sweetspot

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



42.2693, 64.2721, 26.3986



78.9742, 92.3547, 79.1391



59.0784, 63.8015, 25.4218



16.4709, 19.5616, 16.1513



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.



42.2693, 64.2721, 26.3986



47.0407, 77.0728, 24.3147



41.4420, 63.5662, 38.9833



14.4409, 16.2188, 15.2739



16.6653, 32.3728, 5.3702



1.3039, 2.4295, 0.4002



# Inverse Universe

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



47.2777, 31.7914, 79.9919



53.8419, 32.3584, 98.0158



49.4784, 33.4456, 56.6137



14.7155, 14.4711, 18.1619



19.7527, 9.2488, 43.1273



1.5285, 0.7189, 3.1902



# Previews

## White Background



This preview shows how the XYZ color 42.2677, 64.2694, 26.3972 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 42.2677, 64.2694, 26.3972 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

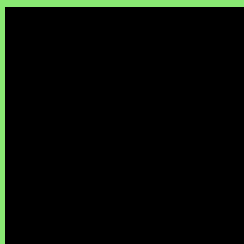
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 42.2677, 64.2694, 26.3972**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.2677, 64.2694, 26.3972.



This preview shows how white text looks on a background with the XYZ color 42.2677, 64.2694,



# 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

42.2677, 64.2694, 26.3972

### Protanopia

58.0874, 63.4855, 23.1023

### Deuteranopia

64.5066, 63.1596, 27.5300



## **Tritanopia**

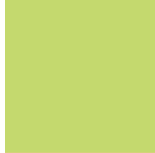
54.7699, 64.0901, 88.8408

# Trichromacy



## Original Color

42.2677, 64.2694, 26.3972



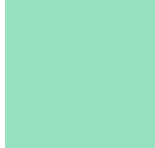
## Protanomaly

50.3923, 62.4873, 24.1571



## Deuteranomaly

53.5484, 61.7935, 26.8743



## Tritanomaly

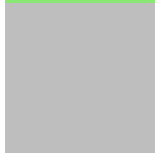
48.9326, 63.6964, 59.5848

# Monochromacy



## Original Color

42.2677, 64.2694, 26.3972



## Achromatopsia

48.9429, 51.4918, 56.0745



## Achromatomaly

45.2368, 54.9649, 42.8754

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.2677, 64.2694, 26.3972 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, 232, 115)` looks like.

```
.text, #text, p{  
    color:rgb(137, 232, 115)  
}
```

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, 232, 115) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(137, 232, 115) }
```

## Border

The CSS property to change the border of an element to XYZ 42.2677, 64.2694, 26.3972 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, 232, 115) }
```



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

```
.border{ border-color:rgb(137, 232, 115) }
```

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

Here you see how a box with a 4 pixel `rgb(137, 232, 115)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(137, 232, 115); -webkit-box-  
shadow:4px 4px 4px 4px rgb(137, 232, 115);  
box-shadow:4px 4px 4px 4px rgb(137, 232,  
115) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.2677, 64.2694, 26.3972 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(137, 232, 115) }
```

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

```
.background{ background-color: rgb(137,  
232, 115) }
```

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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