

# Converting Colors

XYZ(45.0902, 66.9920, 21.1079)

Have a look what the booklet for  
XYZ(45.0902, 66.9920, 21.1079)  
contains.

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# Color

**XYZ(45.2463, 67.1934,  
21.1746)**

# Conversions

## Conversions Part 1

Format	Color
Hex	9BEB5E
RGB	155, 235, 94
RGB Percent	61%, 92%, 37%
CMY	0.3922, 0.0784, 0.6314
CMYK	0.34, 0.00, 0.60, 0.08
HSL	94°, 78%, 65%
HSV	94°, 60%, 92%
XYZ	45.2463, 67.1934, 21.1746
YIQ	195.0060, -2.4190, -60.8110

# Conversions

## Conversions Part 2

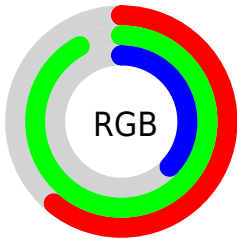
Format	Color
<a href="#">RYB</a>	<a href="#">94, 235, 174</a>
Decimal	<a href="#">10218334</a>
CIELab	<a href="#">85.60, -47.53, 59.30</a>
CIElCh	<a href="#">86, 75.999, 128.712</a>
Yxy	<a href="#">67.1934, 0.3386, 0.5029</a>
Android (android.graphics.Color)	<a href="#">4288408414 (0xFF9BEB5E)</a>
YUV	<a href="#">195.0060, -49.7960, -35.0853</a>
Hunter-Lab	<a href="#">81.9716, -44.9226, 42.0645</a>

# Details

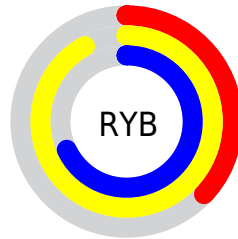
The XYZ color **45.2463, 67.1934, 21.1746** is a light color, and the websafe version is hex **99FF66**. The color can be described as light muted chartreuse. A complement of this color would be **36.4568, 23.0044, 81.1198**, and the grayscale version is **52.1655, 54.8821, 59.7666**.

A 20% lighter version of the original color is **68.6254, 87.8361, 41.7709**, and **21.4910, 34.9704, 7.3675** is the 20% darker color. If you saturate the color by 10%, you get **41.9293, 65.5894, 16.3282**, and if you desaturate by 10%, it is **49.1702, 69.0774, 27.7274**.

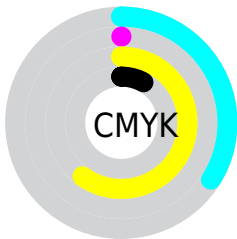
# Distribution



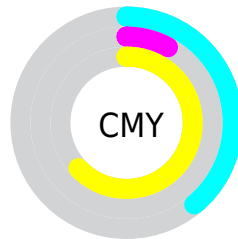
- Red (61%)
- Green (92%)
- Blue (37%)



- Red (37%)
- Yellow (92%)
- Blue (68%)



- Cyan (34%)
- Magenta (0%)
- Yellow (60%)
- Black (8%)




- Cyan (39%)
- Magenta (8%)
- Yellow (63%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.2463, 67.1934, 21.1746 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 45.2463, 67.1934, 21.1746 by changing the saturation by 10% instead.





 45.2463, 67.1934,  
21.1746


 45.2463, 67.1934,  
21.1746


358.5371,  
450.6329, 271.0164

 31.8536, 49.2418,  
13.0592


 82.3247, 115.1975,  
46.2625


 21.4047, 34.8113,  
7.3381


 106.7410,  
146.0188, 64.0721

 13.5343, 23.5176,  
3.5928


 135.5627,  
181.8988, 85.9501

 7.8770, 14.9762,  
1.4047

 169.1549,  
223.2218, 112.3152

 4.0675, 8.8027,  
0.1454

207.8831,  
270.3724, 143.5858

 1.7404, 4.6127,  
0.0000

252.1126,

 0.4813, 2.0219,

323.7348, 180.1805

0.0000

302.2089,  
383.6935, 222.5179

0.0000, 0.6201,  
0.0000

0.0000, 0.0000,  
0.0000

45.2463, 67.1934,  
21.1746

45.2463, 67.1934,  
21.1746

41.9293, 65.5894,  
16.3282

49.1702, 69.0774,  
27.7274

39.1749, 64.2397,  
13.0244


53.7311, 71.2476,  
36.1216


36.9393, 63.1280,  
11.0753


58.9629, 73.7207,  
46.4838


35.1511, 62.2246,  
10.1580

64.8950, 76.5095,  
58.9280

 35.1509, 62.2245,  
10.1579

 71.5551, 79.6260,  
73.5597

 78.9692, 83.0813,  
90.4770

 86.5921, 86.6583,  
106.7706

 88.9998, 87.8995,  
106.8833

# Harmonies

## Analogous

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



58.9605, 67.1934, 13.6320



45.2463, 67.1934, 21.1746



37.6242, 67.1934, 43.7500

# Triad

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



45.2463, 67.1934, 21.1746



52.5384, 67.1934, 202.5879



102.6910, 67.1934, 59.6663

# Complementary

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



45.2463, 67.1934, 21.1746



36.4568, 23.0044, 81.1198

# 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.



100.1253, 67.1934, 113.4654



45.2463, 67.1934, 21.1746



69.0349, 67.1934, 213.4215

# Square

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



45.2463, 67.1934, 21.1746



41.2755, 67.1934, 150.3350



86.9980, 67.1934, 175.4575



93.4816, 67.1934, 28.3062



# Rectangle

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



45.2463, 67.1934, 21.1746



36.0580, 67.1934, 71.0422



86.9980, 67.1934, 175.4575



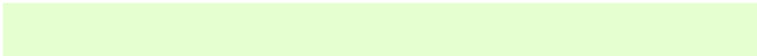
103.2068, 67.1934, 75.3239

# Sweetspot

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



45.2479, 67.1963, 21.1761



79.5801, 92.7792, 74.1004



51.4008, 48.7065, 17.2829



16.5571, 19.6352, 14.8348



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.



45.2479, 67.1963, 21.1761



49.6400, 78.5425, 18.5727



36.7948, 62.7868, 23.1184



15.4864, 17.1808, 16.0187



19.7023, 34.7014, 5.6596



1.6555, 2.7808, 0.4495



# Inverse Universe

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



36.4568, 23.0044, 81.1198



38.1376, 20.9583, 96.6430



51.9390, 31.1385, 74.9405



15.0492, 14.9707, 19.0187



13.9081, 6.2058, 44.2078

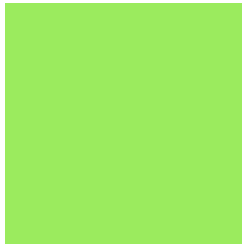


1.2021, 0.5440, 3.4765



# Previews

## White Background



This preview shows how the XYZ color 45.2463, 67.1934, 21.1746 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 45.2463, 67.1934, 21.1746 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 45.2463, 67.1934, 21.1746**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.2463, 67.1934, 21.1746.



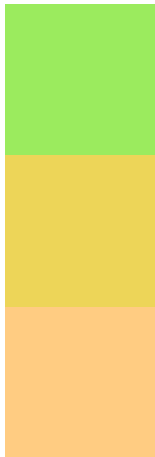
This preview shows how white text looks on a background with the XYZ color 45.2463, 67.1934,



# 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

45.2463, 67.1934, 21.1746

### Protanopia

60.4808, 66.2976, 18.8416

### Deuteranopia

66.8621, 66.0574, 30.3454



## Tritanopia

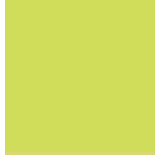
59.1573, 66.7066, 90.6467

# Trichromacy



## Original Color

45.2463, 67.1934, 21.1746



## Protanomaly

53.4340, 65.7165, 19.5411



## Deuteranomaly

56.7247, 64.9453, 26.3756



## Tritanomaly

52.1503, 65.8306, 56.4123

# Monochromacy



## Original Color

45.2463, 67.1934, 21.1746



## Achromatopsia

51.8711, 54.5724, 59.4294



## Achromatomaly

48.0405, 58.2651, 41.0620

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.2463, 67.1934, 21.1746 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(155, 235, 94)` looks like.

```
.text, #text, p{  
    color:rgb(155, 235, 94)  
}
```

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(155, 235, 94) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(155, 235, 94) }
```

## Border

The CSS property to change the border of an element to XYZ 45.2463, 67.1934, 21.1746 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(155, 235, 94) }
```



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

```
.border{ border-color:rgb(155, 235, 94) }
```

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

Here you see how a box with a 4 pixel rgb(155, 235, 94) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(155, 235, 94); -webkit-box-  
shadow:4px 4px 4px 4px rgb(155, 235, 94);  
box-shadow:4px 4px 4px 4px rgb(155, 235,  
94) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.2463, 67.1934, 21.1746 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(155, 235, 94) }
```

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

```
.background{ background-color: rgb(155,  
235, 94) }
```

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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