

# Converting Colors

XYZ(42.5995, 65.1399, 14.7686)

Have a look what the booklet for  
XYZ(42.5995, 65.1399, 14.7686)  
contains.

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# Color

**XYZ(42.5589, 65.0988,  
14.7371)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	96E93D
RGB	150, 233, 61
RGB Percent	59%, 91%, 24%
CMY	0.4118, 0.0863, 0.7608
CMYK	0.36, 0.00, 0.74, 0.09
HSL	89°, 80%, 58%
HSV	89°, 74%, 91%
XYZ	42.5589, 65.0988, 14.7371
YIQ	188.5750, 5.7440, -71.0880

# Conversions

## Conversions Part 2

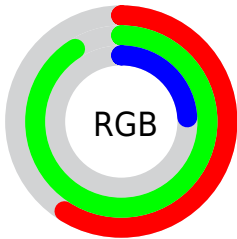
Format	Color
<a href="#">RYB</a>	<a href="#">61, 233, 144</a>
Decimal	<a href="#">9890109</a>
CIELab	<a href="#">84.53, -50.82, 70.65</a>
CIELCh	<a href="#">85, 87.028, 125.728</a>
Yxy	<a href="#">65.0988, 0.3477, 0.5319</a>
Android (android.graphics.Color)	<a href="#">4288080189</a> ( <a href="#">0xFF96E93D</a> )
YUV	<a href="#">188.5750, -62.8945, -33.8303</a>
Hunter-Lab	<a href="#">80.6838, -47.0420, 45.6492</a>

# Details

The XYZ color **42.5589, 65.0988, 14.7371** is a dark color, and the websafe version is hex **99FF66**. The color can be described as middle washed chartreuse. A complement of this color would be **27.8815, 15.1520, 78.5496**, and the grayscale version is **48.4742, 50.9986, 55.5375**.

A 20% lighter version of the original color is **65.3843, 86.4072, 30.6849**, and **20.0365, 33.6684, 5.4426** is the 20% darker color. If you saturate the color by 10%, you get **40.0920, 63.8866, 12.0272**, and if you desaturate by 10%, it is **45.4998, 66.5280, 18.8938**.

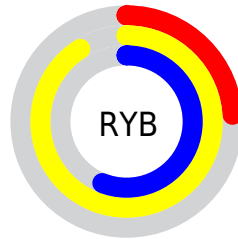
# Distribution



Red (59%)

Green (91%)

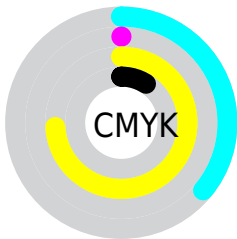
Blue (24%)



Red (24%)

Yellow (91%)

Blue (56%)

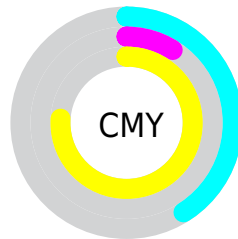


Cyan (36%)

Magenta (0%)

Yellow (74%)

Black (9%)



Cyan (41%)

Magenta (9%)


Yellow (76%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.5589, 65.0988, 14.7371 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 42.5589, 65.0988, 14.7371 by changing the saturation by 10% instead.





 42.5589, 65.0988,  
14.7371


 42.5589, 65.0988,  
14.7371


347.7469,  
443.1469, 233.3551

 29.7322, 47.5412,  
8.4905


 78.3047, 112.1919,  
35.1271


 19.7825, 33.4637,  
4.3181

 101.9544,  
142.4962, 50.1075


 12.3444, 22.4819,  
1.8015


 129.9426,  
177.8181, 68.8364

 7.0525, 14.2114,  
0.4289

 162.6345,  
218.5422, 91.7321

 3.5416, 8.2679,  
0.0000

 200.3956,  
265.0527, 119.2133

 1.4462, 4.2668,  
0.0000

243.5911,

 0.2888, 1.8239,

317.7340, 151.6985

0.0000

292.5864,  
376.9706, 189.6063

■ 0.0000, 0.5020,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 42.5589, 65.0988,  
14.7371

■ 42.5589, 65.0988,  
14.7371

■ 40.0920, 63.8866,  
12.0272

■ 45.4998, 66.5280,  
18.8938


■ 38.0510, 62.8648,  
10.5587


■ 48.9470, 68.1811,  
24.6586

■ 36.9637, 62.3138,  
10.0796


■ 52.9342, 70.0743,  
32.1758

■ 57.4905, 72.2199,  
41.5728

 62.6425, 74.6291,  
52.9647

 68.4150, 77.3122,  
66.4579

 74.8312, 80.2792,  
82.1507

 81.9129, 83.5392,  
100.1356

 87.0467, 86.0474,  
106.6287

# Harmonies

## Analogous

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



58.2278, 65.0988, 8.8831



42.5589, 65.0988, 14.7371



33.7328, 65.0988, 35.4290

# Triad

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



42.5589, 65.0988, 14.7371



47.7806, 65.0988, 219.5503



106.8731, 65.0988, 60.7506

# Complementary

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



42.5589, 65.0988, 14.7371



27.8815, 15.1520, 78.5496

# 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.



102.4595, 65.0988, 124.4495



42.5589, 65.0988, 14.7371



65.6703, 65.0988, 239.0195

# Square

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



42.5589, 65.0988, 14.7371



36.2773, 65.0988, 153.2897



86.2958, 65.0988, 197.6772



97.3394, 65.0988, 25.0296



# Rectangle

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



42.5589, 65.0988, 14.7371



31.6473, 65.0988, 63.2225



86.2958, 65.0988, 197.6772



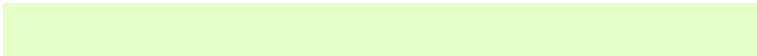
106.9920, 65.0988, 79.1354

# Sweetspot

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



42.5604, 65.1016, 14.7385



78.0288, 92.1208, 67.6405



44.0135, 36.7917, 9.1975



16.3091, 19.5348, 13.5832



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.



42.5604, 65.1016, 14.7385



47.7312, 77.6671, 13.5773



32.2797, 59.8018, 14.2574



15.6118, 17.2454, 16.0246



21.1170, 35.4307, 5.7258



1.7692, 2.8394, 0.4548



# Inverse Universe

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



27.8815, 15.1520, 78.5496



28.8774, 13.4199, 95.6760



48.1421, 25.5968, 79.4978



14.9230, 14.9056, 19.0128



12.3111, 5.3825, 44.1330

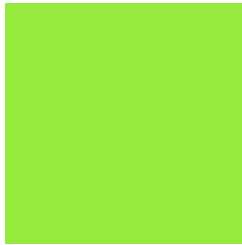


1.0773, 0.4797, 3.4707



# Previews

## White Background



This preview shows how the XYZ color 42.5589, 65.0988, 14.7371 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 42.5589, 65.0988, 14.7371 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

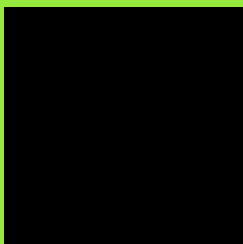
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

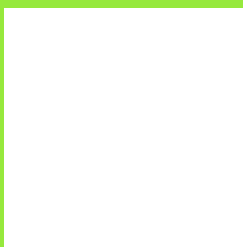
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 42.5589, 65.0988, 14.7371**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.5589, 65.0988, 14.7371.



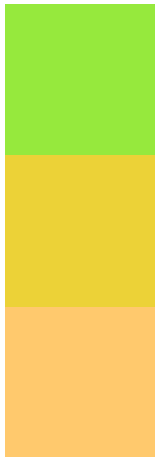
This preview shows how white text looks on a background with the XYZ color 42.5589, 65.0988,



# 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

42.5589, 65.0988, 14.7371

### Protanopia

58.3283, 64.2019, 12.9324

### Deuteranopia

64.8870, 64.1374, 23.4278



## **Tritanopia**

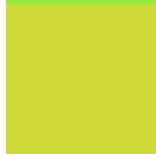
57.0418, 64.5081, 88.0421

# Trichromacy



## Original Color

42.5589, 65.0988, 14.7371



## Protanomaly

50.9868, 63.4174, 13.4244



## Deuteranomaly

54.3413, 63.1129, 19.4431



## Tritanomaly

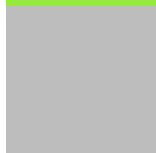
49.3511, 63.7532, 48.7343

# Monochromacy



## Original Color

42.5589, 65.0988, 14.7371



## Achromatopsia

48.3692, 50.8881, 55.4172



## Achromatomaly

44.3930, 54.7296, 33.8153

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.5589, 65.0988, 14.7371 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(150, 233, 61)` looks like.

```
.text, #text, p{  
    color:rgb(150, 233, 61)  
}
```

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(150, 233, 61) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(150, 233, 61) }
```

## Border

The CSS property to change the border of an element to XYZ 42.5589, 65.0988, 14.7371 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(150, 233, 61) }
```



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

```
.border{ border-color:rgb(150, 233, 61) }
```

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

Here you see how a box with a 4 pixel `rgb(150, 233, 61)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(150, 233, 61); -webkit-box-  
shadow:4px 4px 4px 4px rgb(150, 233, 61);  
box-shadow:4px 4px 4px 4px rgb(150, 233,  
61) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.5589, 65.0988, 14.7371 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(150, 233, 61) }
```

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

```
.background{ background-color: rgb(150,  
233, 61) }
```

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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