

# Converting Colors

XYZ(41.3317, 62.0191, 12.3121)

Have a look what the booklet for  
XYZ(41.3317, 62.0191, 12.3121)  
contains.

<b>XYZ(41.2692, 61.9977, 12.2743)</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(41.2692, 61.9977,  
12.2743)**

# Conversions

## Conversions Part 1

Format	Color
Hex	9AE32D
RGB	154, 227, 45
RGB Percent	60%, 89%, 18%
CMY	0.3961, 0.1098, 0.8235
CMYK	0.32, 0.00, 0.80, 0.11
HSL	84°, 76%, 53%
HSV	84°, 80%, 89%
XYZ	41.2692, 61.9977, 12.2743
YIQ	184.4250, 14.9140, -72.0780

# Conversions

## Conversions Part 2

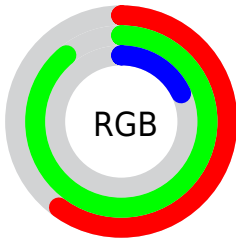
<b>Format</b>	<b>Color</b>
<b>RYB</b>	45, 227, 118
Decimal	10150701
CIELab	82.91, -47.73, 73.92
CIElCh	83, 87.993, 122.849
Yxy	61.9977, 0.3572, 0.5366
Android (android.graphics.Color)	4288340781 (0xFF9AE32D)
YUV	184.4250, -68.7365, -26.6827
Hunter-Lab	78.7386, -44.2355, 45.8745

# Details

The XYZ color **41.2692, 61.9977, 12.2743** is a dark color, and the websafe version is hex **99CC00**. The color can be described as middle washed chartreuse. A complement of this color would be **22.2777, 11.2764, 73.6791**, and the grayscale version is **46.1601, 48.5641, 52.8863**.

A 20% lighter version of the original color is **65.8544, 86.7277, 27.1791**, and **19.3868, 31.6126, 5.0801** is the 20% darker color. If you saturate the color by 10%, you get **39.2766, 61.0101, 10.4808**, and if you desaturate by 10%, it is **43.6309, 63.1524, 15.3125**.

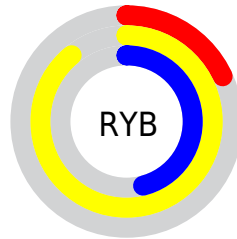
# Distribution



Red (60%)

Green (89%)

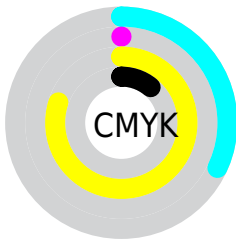
Blue (18%)



Red (18%)

Yellow (89%)

Blue (46%)

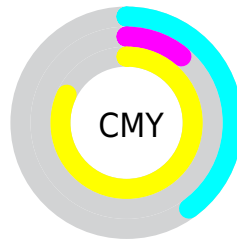


Cyan (32%)

Magenta (0%)

Yellow (80%)

Black (11%)



Cyan (40%)

Magenta (11%)

Yellow (82%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 41.2692, 61.9977, 12.2743 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 41.2692, 61.9977, 12.2743 by changing the saturation by 10% instead.



41.2692, 61.9977,  
12.2743

41.2692, 61.9977,  
12.2743

342.4879,  
431.9227, 217.2548

28.7181, 45.0308,  
6.8060

76.3645, 107.7222,  
30.6655

19.0109, 31.4817,  
3.2645

99.6394, 137.2486,  
44.4255

11.7822, 20.9659,  
1.2312

127.2196,  
171.7304, 61.7865

6.6667, 13.0991,  
0.0044

159.4705,  
211.5519, 83.1670

3.2990, 7.4968,  
0.0000

196.7574,  
257.0974, 108.9855

1.3138, 3.7747,  
0.0000

239.4457,

0.1935, 1.5484,

308.7515, 139.6606

0.0000

287.9008,  
366.8985, 175.6109

■ 0.0000, 0.3224,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 41.2692, 61.9977,  
12.2743

■ 41.2692, 61.9977,  
12.2743

■ 39.2766, 61.0101,  
10.4808

■ 43.6309, 63.1524,  
15.3125

■ 37.6148, 60.1705,  
9.6316

■ 46.3932, 64.4807,  
19.7655

■ 49.5880, 65.9979,  
25.7808

■ 53.2422, 67.7149,  
33.4864

■ 57.3802, 69.6419,  
42.9971

■ 62.0243, 71.7881,  
54.4177

■ 67.1953, 74.1620,  
67.8450

■ 72.9128, 76.7718,  
83.3689

■ 79.1951, 79.6250,  
101.0744

# Harmonies

## Analogous

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



57.1322, 61.9977, 7.6852



41.2692, 61.9977, 12.2743



32.0589, 61.9977, 30.1671

# Triad

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



41.2692, 61.9977, 12.2743



43.7959, 61.9977, 209.7031



103.3954, 61.9977, 62.4440

# Complementary

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



41.2692, 61.9977, 12.2743



22.2777, 11.2764, 73.6791

# 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.



97.7192, 61.9977, 127.2984



41.2692, 61.9977, 12.2743



60.7589, 61.9977, 234.8892

# Square

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



41.2692, 61.9977, 12.2743



33.2826, 61.9977, 141.5268



81.0158, 61.9977, 198.8403



95.2008, 61.9977, 25.2092



# Rectangle

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



41.2692, 61.9977, 12.2743



29.6326, 61.9977, 55.3142



81.0158, 61.9977, 198.8403



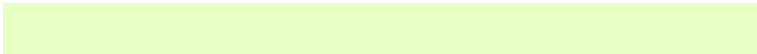
103.0485, 61.9977, 81.3668

# Sweetspot

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



41.2706, 62.0004, 12.2756



78.2530, 92.3037, 64.6133



38.6097, 29.4328, 6.1297



16.2894, 19.5441, 12.7043



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.



41.2706, 62.0004, 12.2756



49.6818, 78.6905, 12.8632



30.0075, 56.1941, 11.7485



15.0130, 16.5138, 15.3007



22.0711, 35.1595, 5.6232



1.7352, 2.6519, 0.4204



# Inverse Universe

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



22.2777, 11.2764, 73.6791



24.3936, 10.6546, 95.3786



41.0440, 20.9507, 74.5573



14.1273, 14.1679, 18.1344



10.7292, 4.5970, 42.7050



0.8954, 0.3926, 3.1605



# Previews

## White Background



This preview shows how the XYZ color 41.2692, 61.9977, 12.2743 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 41.2692, 61.9977, 12.2743 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 41.2692, 61.9977, 12.2743**

## **Background**



This preview shows how black text looks on a background with the XYZ color 41.2692, 61.9977, 12.2743.



This preview shows how white text looks on a background with the XYZ color 41.2692, 61.9977,



# 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

41.2692, 61.9977, 12.2743

### Protanopia

55.3925, 61.2780, 10.8278

### Deuteranopia

62.3912, 61.3044, 15.9417



## Tritanopia

55.2024, 61.4201, 82.3446

# Trichromacy



## Original Color

41.2692, 61.9977, 12.2743

## Protanomaly

49.0754, 60.9497, 11.2757

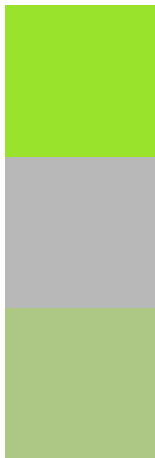
## Deuteranomaly

52.2394, 59.9363, 14.1257

## Tritanomaly

47.3943, 60.5237, 42.9025

# Monochromacy



## Original Color

41.2692, 61.9977, 12.2743

## Achromatopsia

45.5594, 47.9320, 52.1980

## Achromatomaly

42.1215, 51.8862, 29.9853

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 41.2692, 61.9977, 12.2743 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(154, 227, 45)` looks like.

```
.text, #text, p{  
    color:rgb(154, 227, 45)  
}
```

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(154, 227, 45) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(154, 227, 45) }
```

## Border

The CSS property to change the border of an element to XYZ 41.2692, 61.9977, 12.2743 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(154, 227, 45) }
```



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

```
.border{ border-color:rgb(154, 227, 45) }
```

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

Here you see how a box with a 4 pixel rgb(154, 227, 45) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(154, 227, 45); -webkit-box-  
shadow:4px 4px 4px 4px rgb(154, 227, 45);  
box-shadow:4px 4px 4px 4px rgb(154, 227,  
45) }
```

# Background

The CSS property to change the background color of an element to XYZ 41.2692, 61.9977, 12.2743 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(154, 227, 45) }
```

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

```
.background{ background-color: rgb(154,  
227, 45) }
```

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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