

Converting Colors

XYZ(40.8409, 66.0106, 3.2237)

Have a look what the booklet for
XYZ(40.8409, 66.0106, 3.2237)
contains.

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Color

**XYZ(42.3168, 66.7714,
10.6578)**

Conversions

Conversions Part 1

Format	Color
Hex	93ED00
RGB	147, 237, 0
RGB Percent	58%, 93%, 0%
CMY	0.4235, 0.0706, 0.9999
CMYK	0.38, 0.00, 1.00, 0.07
HSL	83°, 100%, 46%
HSV	83°, 100%, 93%
XYZ	42.3168, 66.7714, 10.6578
YIQ	183.0720, 22.4370, -92.7870

Conversions

Conversions Part 2

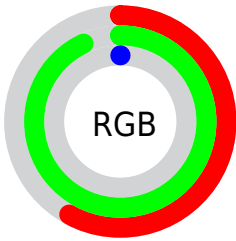
Format	Color
RYB	0, 237, 90
Decimal	9694464
CIELab	85.39, -55.23, 82.64
CIELCh	85, 99.391, 123.755
Yxy	66.7714, 0.3534, 0.5576
Android (android.graphics.Color)	4287884544 (0xFF93ED00)
YUV	183.0720, -90.2545, -31.6351
Hunter-Lab	81.7138, -50.5600, 49.4665

Details

The XYZ color **42.3168, 66.7714, 10.6578** is a dark color, and the websafe version is hex **99FF33**. The color can be described as dark washed chartreuse. A complement of this color would be **19.5072, 8.2910, 80.6967**, and the grayscale version is **45.5242, 47.8950, 52.1577**.

A 20% lighter version of the original color is **63.3376, 85.5236, 22.8423**, and **20.1590, 34.6209, 5.6200** is the 20% darker color. If you saturate the color by 10%, you get **42.3160, 66.7731, 10.6582**, and if you desaturate by 10%, it is **44.1583, 67.7041, 11.5905**.

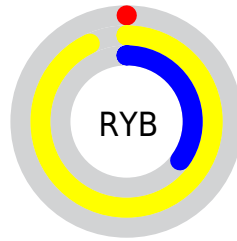
Distribution



Red (58%)

Green (93%)

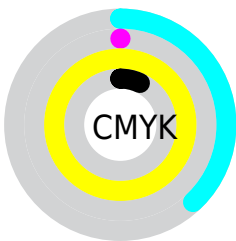
Blue (0%)



Red (0%)

Yellow (93%)

Blue (35%)

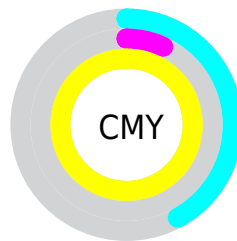


Cyan (38%)

Magenta (0%)

Yellow (100%)

Black (7%)



Cyan (42%)

Magenta (7%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 42.3168, 66.7714, 10.6578 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 42.3168, 66.7714, 10.6578 by changing the saturation by 10% instead.

42.3168, 66.7714,
10.6578

42.3168, 66.7714,
10.6578

346.7638,
449.1306, 205.9570

29.5416, 48.8989,
5.7260

77.9410, 114.5928,
27.6525

19.6373, 34.5393,
2.6131

101.5208,
145.3104, 40.5525

12.2384, 23.3082,
0.8992

129.4328,
181.0786, 56.9456

6.9796, 14.8212,
0.0000

162.0424,
222.2816, 77.2504

3.4956, 8.6940,
0.0000

199.7149,
269.3040, 101.8854

1.4209, 4.5421,
0.0000

242.8158,

0.2711, 1.9812,

322.5300, 131.2691

0.0000

291.7103,
382.3441, 165.8202

■ 0.0000, 0.5965,
0.0000

■ 0.0000, 0.0000,
0.0000

■ 42.3168, 66.7714,
10.6578

■ 42.3168, 66.7714,
10.6578

■ 42.3160, 66.7731,
10.6582

■ 44.1583, 67.7041,
11.5905

■ 46.3252, 68.7797,
13.5696

■ 48.8839, 70.0271,
16.9239

■ 51.8736, 71.4625,
21.8466

■ 55.3278, 73.0996,
28.5001

■ 59.2759, 74.9502,
37.0265

■ 63.7444, 77.0254,
47.5531

■ 68.7577, 79.3352,
60.1962

■ 74.3384, 81.8890,
75.0631

Harmonies

Analogous

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



60.6705, 66.7714, 5.8878



42.3168, 66.7714, 10.6578



32.0107, 66.7714, 30.4965

Triad

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



42.3168, 66.7714, 10.6578



46.1773, 66.7714, 250.2912



117.2194, 66.7714, 64.8799

Complementary

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



42.3168, 66.7714, 10.6578



19.5072, 8.2910, 80.6967

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.



110.7619, 66.7714, 142.4849



42.3168, 66.7714, 10.6578



66.3424, 66.7714, 279.9301

Square

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



42.3168, 66.7714, 10.6578



33.8414, 66.7714, 165.6692



90.6924, 66.7714, 232.2275



106.7019, 66.7714, 23.2737

Rectangle

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



42.3168, 66.7714, 10.6578



29.4184, 66.7714, 60.0300



90.6924, 66.7714, 232.2275



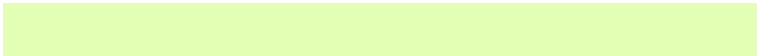
116.9727, 66.7714, 87.0441

Sweetspot

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



42.3183, 66.7743, 10.6592



75.1927, 90.9142, 55.9683



38.3288, 24.8092, 2.7694



15.6006, 19.2306, 10.7927



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.



42.3183, 66.7743, 10.6592



49.8896, 78.8041, 12.5813



30.8700, 60.8725, 10.1235



15.7656, 17.3247, 16.0318



23.2524, 36.5315, 5.8258



1.9323, 2.9235, 0.4624

Inverse Universe

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



19.5072, 8.2910, 80.6967



22.9641, 9.7533, 95.2800



40.5768, 19.1527, 81.6828



14.7719, 14.8277, 19.0057



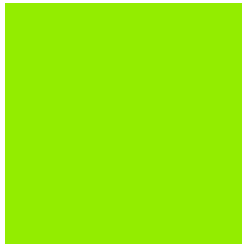
10.7832, 4.5949, 44.0615



0.9508, 0.4144, 3.4648

Previews

White Background



This preview shows how the XYZ color 42.3168, 66.7714, 10.6578 looks on a white background.

Color Contrast Check

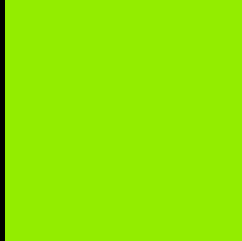
Large Text (above 18pt) WCAG AA × Fail

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 42.3168, 66.7714, 10.6578 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 42.3168, 66.7714, 10.6578

Background



This preview shows how black text looks on a background with the XYZ color 42.3168, 66.7714, 10.6578.



This preview shows how white text looks on a background with the XYZ color 42.3168, 66.7714,

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

42.3168, 66.7714, 10.6578

Protanopia

59.3909, 65.9392, 9.5973

Deuteranopia

66.0438, 65.7301, 26.0359



Tritanopia

58.2594, 66.2437, 90.6046

Trichromacy



Original Color

42.3168, 66.7714, 10.6578



Protanomaly

51.5749, 65.3644, 9.8983



Deuteranomaly

54.1108, 64.2051, 16.0194



Tritanomaly

48.0921, 64.5196, 39.1970

Monochromacy



Original Color

42.3168, 66.7714, 10.6578



Achromatopsia

45.0092, 47.3531, 51.5676



Achromatomaly

41.0859, 52.5189, 24.4947

CSS Examples

Text

The CSS property to change the color of the text to XYZ 42.3168, 66.7714, 10.6578 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(147, 237, 0)` looks like.

```
.text, #text, p{  
    color:rgb(147, 237, 0)  
}
```

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(147, 237, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(147, 237, 0) }
```

Border

The CSS property to change the border of an element to XYZ 42.3168, 66.7714, 10.6578 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(147, 237, 0) }
```


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

```
.border{ border-color:rgb(147, 237, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(147, 237, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(147, 237, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(147, 237, 0);  
box-shadow:4px 4px 4px 4px rgb(147, 237,  
0) }
```

Background

The CSS property to change the background color of an element to XYZ 42.3168, 66.7714, 10.6578 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(147, 237, 0) }
```

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

```
.background{ background-color: rgb(147,  
237, 0) }
```

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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