

# Converting Colors

XYZ(42.7491, 74.7915, 27.2220)

Have a look what the booklet for  
XYZ(42.7491, 74.7915, 27.2220)  
contains.

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# Color

**XYZ(42.7491, 74.7915,  
27.2220)**

# Conversions

## Conversions Part 1

Format	Color
Hex	59FF6F
RGB	89, 255, 111
RGB Percent	35%, 100%, 44%
CMY	0.6510, 0.0000, 0.5647
CMYK	0.65, 0.00, 0.56, 0.00
HSL	128°, 100%, 67%
HSV	128°, 65%, 100%
XYZ	42.7491, 74.7915, 27.2220
YIQ	188.9500, -52.7120, -79.9760

# Conversions

## Conversions Part 2

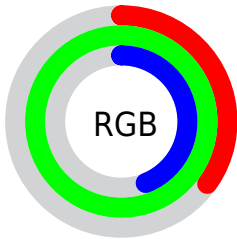
Format	Color
<a href="#">RYB</a>	<a href="#">89, 236, 255</a>
Decimal	<a href="#">5898095</a>
CIELab	<a href="#">89.30, -70.77, 55.55</a>
CIELCh	<a href="#">89, 89.967, 141.871</a>
Yxy	<a href="#">74.7915, 0.2953, 0.5166</a>
Android (android.graphics.Color)	<a href="#">4284088175</a> ( <a href="#">0xFF59FF6F</a> )
YUV	<a href="#">188.9500, -38.4293, -87.6561</a>
Hunter-Lab	<a href="#">86.4821, -63.1090, 41.8747</a>

# Details

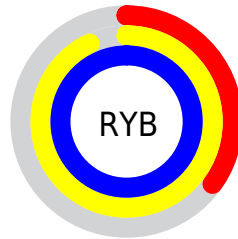
The XYZ color **42.7491, 74.7915, 27.2220** is a dark color, and the websafe version is hex **66FF66**. The color can be described as middle muted spring green. A complement of this color would be **59.5202, 34.2882, 80.5705**, and the grayscale version is **48.5759, 51.1056, 55.6540**.

A 20% lighter version of the original color is **56.1605, 81.2417, 48.7976**, and **20.7048, 40.2279, 10.5444** is the 20% darker color. If you saturate the color by 10%, you get **39.6404, 73.3127, 21.4872**, and if you desaturate by 10%, it is **47.0071, 76.8281, 34.5871**.

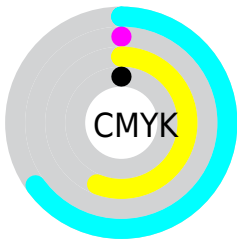
# Distribution



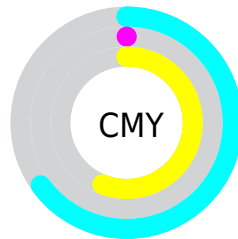
- Red (35%)
- Green (100%)
- Blue (44%)



- Red (35%)
- Yellow (93%)
- Blue (100%)



- Cyan (65%)
- Magenta (0%)
- Yellow (56%)
- Black (0%)



- Cyan (65%)
- Magenta (0%)
- Yellow (56%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.7491, 74.7915, 27.2220 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 42.7491, 74.7915, 27.2220 by changing the saturation by 10% instead.





 42.7491, 74.7915,  
27.2220


 42.7491, 74.7915,  
27.2220

348.5180,  
477.2006, 302.5245


 29.8820, 55.4421,  
17.5061


 78.5902, 126.0172,  
56.2480


 19.8966, 39.7558,  
10.4302


 102.2948,  
158.6622, 76.3951

 12.4278, 27.3482,  
5.5758


 130.3427,  
196.5080, 100.8564

 7.1100, 17.8349,  
2.5243

 163.0992,  
239.9388, 130.0505

 3.5779, 10.8315,  
0.8530

200.9296,  
289.3391, 164.3958

 1.4662, 5.9537,  
0.0000


244.1993,


 0.3027, 2.8169,


345.0932, 204.3108


0.0000


293.2736,  
407.5856, 250.2142


 0.0000, 1.0369,  
0.0000


 0.0000, 0.0000,  
0.0000


 42.7491, 74.7915,  
27.2220


 42.7491, 74.7915,  
27.2220


 39.6404, 73.3127,  
21.4872


 47.0071, 76.8281,  
34.5871


 37.5654, 72.3345,  
17.2552

 52.5125, 79.4704,  
43.6897

 36.3856, 71.7886,  
14.3857

 59.3539, 82.7622,  
54.6321

 36.0458, 71.6343,  
13.4252

 67.6115, 86.7427,  
67.5078

■ 77.3594, 91.4483,  
82.4038

■ 88.6660, 96.9126,  
99.4019

95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

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



56.4737, 74.7915, 12.8301



42.7491, 74.7915, 27.2220



36.9128, 74.7915, 65.4864

# Triad

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



42.7491, 74.7915, 27.2220



65.2751, 74.7915, 269.7033



117.9784, 74.7915, 44.1486

# Complementary

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



42.7491, 74.7915, 27.2220



59.5202, 34.2882, 80.5705

# 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.



121.6861, 74.7915, 99.7836



42.7491, 74.7915, 27.2220



88.0262, 74.7915, 253.3865

# Square

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



42.7491, 74.7915, 27.2220



48.0496, 74.7915, 218.6207



109.7955, 74.7915, 181.3954



100.5140, 74.7915, 18.5003



# Rectangle

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



42.7491, 74.7915, 27.2220



37.2233, 74.7915, 108.9645



109.7955, 74.7915, 181.3954



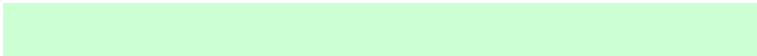
121.0016, 74.7915, 58.9834

# Sweetspot

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



42.7495, 74.7917, 27.2232



72.3896, 89.0485, 74.8429



72.0338, 90.0115, 23.0290



14.9200, 18.7828, 15.1397



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.



42.7495, 74.7917, 27.2232



38.9372, 72.9799, 20.1097



49.3245, 77.4217, 61.8467



17.8696, 20.2074, 19.6161



18.8646, 37.4424, 7.1724



1.8656, 3.6572, 0.8502



# Inverse Universe

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



59.5202, 34.2882, 80.5705



56.7512, 29.7349, 76.6116



50.5322, 30.6929, 33.2400



18.6830, 18.2565, 22.2136



28.4226, 13.8584, 37.2057

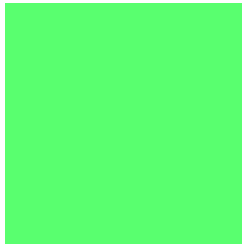


2.7949, 1.3604, 3.7676



# Previews

## White Background



This preview shows how the XYZ color 42.7491, 74.7915, 27.2220 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

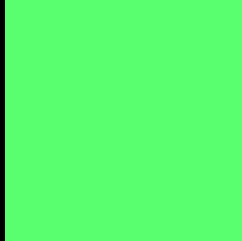
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 42.7491, 74.7915, 27.2220 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

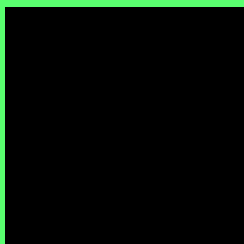
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

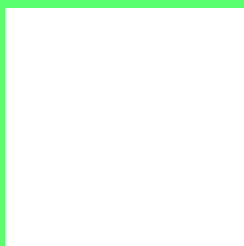
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 42.7491, 74.7915, 27.2220**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.7491, 74.7915, 27.2220.



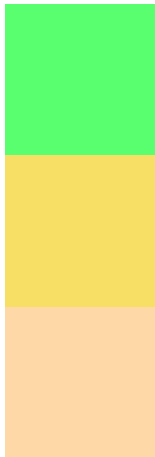
This preview shows how white text looks on a background with the XYZ color 42.7491, 74.7915,



# 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

42.7491, 74.7915, 27.2220

### Protanopia

67.0944, 73.4891, 22.9605

### Deuteranopia

72.8637, 73.1989, 47.3343



## Tritanopia

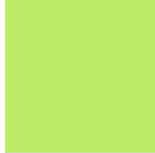
60.1261, 74.2984, 105.7798

# Trichromacy



## Original Color

42.7491, 74.7915, 27.2220



## Protanomaly

53.4933, 71.3837, 24.3236



## Deuteranomaly

56.0690, 70.3023, 38.2183



## Tritanomaly

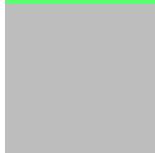
51.4424, 73.2983, 67.9366

# Monochromacy



## Original Color

42.7491, 74.7915, 27.2220



## Achromatopsia

48.3692, 50.8881, 55.4172



## Achromatomaly

43.3641, 56.9340, 42.4220

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.7491, 74.7915, 27.2220 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(89, 255, 111)` looks like.

```
.text, #text, p{  
    color:rgb(89, 255, 111)  
}
```

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(89, 255, 111) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(89, 255, 111) }
```

## Border

The CSS property to change the border of an element to XYZ 42.7491, 74.7915, 27.2220 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(89, 255, 111) }
```



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

```
.border{ border-color:rgb(89, 255, 111) }
```

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

Here you see how a box with a 4 pixel `rgb(89, 255, 111)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(89, 255, 111); -webkit-box-  
shadow:4px 4px 4px 4px rgb(89, 255, 111);  
box-shadow:4px 4px 4px 4px rgb(89, 255,  
111) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.7491, 74.7915, 27.2220 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(89, 255, 111) }
```

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

```
.background{ background-color: rgb(89, 255,  
111) }
```

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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