

# Converting Colors

XYZ(46.2735, 71.1891, 42.6412)

Have a look what the booklet for  
XYZ(46.2735, 71.1891, 42.6412)  
contains.

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# Color

**XYZ(46.2366, 71.1666,  
42.7521)**

# Conversions

## Conversions Part 1

Format	Color
Hex	79F49C
RGB	121, 244, 156
RGB Percent	47%, 96%, 61%
CMY	0.5255, 0.0431, 0.3882
CMYK	0.50, 0.00, 0.36, 0.04
HSL	137°, 85%, 72%
HSV	137°, 50%, 96%
XYZ	46.2366, 71.1666, 42.7521
YIQ	197.1910, -45.0600, -53.4440

# Conversions

## Conversions Part 2

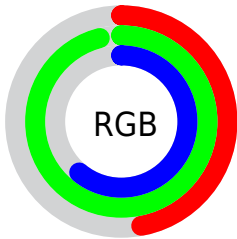
Format	Color
<a href="#">RYB</a>	<a href="#">121, 217, 244</a>
Decimal	<a href="#">7992476</a>
CIELab	<a href="#">87.57, -53.17, 32.11</a>
CIELCh	<a href="#">88, 62.113, 148.872</a>
Yxy	<a href="#">71.1666, 0.2887, 0.4444</a>
Android (android.graphics.Color)	<a href="#">4286182556 (0xFF79F49C)</a>
YUV	<a href="#">197.1910, -20.3072, -66.8195</a>
Hunter-Lab	<a href="#">84.3603, -49.7974, 29.0052</a>

# Details

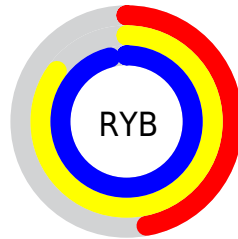
The XYZ color **46.2366, 71.1666, 42.7521** is a light color, and the websafe version is hex **99FF99**. A complement of this color would be **55.6565, 37.5128, 64.6314**, and the grayscale version is **53.3262, 56.1033, 61.0965**.

A 20% lighter version of the original color is **66.3403, 85.9264, 74.7170**, and **22.0726, 37.4699, 19.1658** is the 20% darker color. If you saturate the color by 10%, you get **41.8665, 69.0744, 35.3784**, and if you desaturate by 10%, it is **51.6875, 73.7954, 51.2886**.

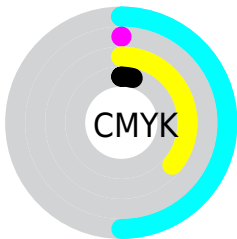
# Distribution



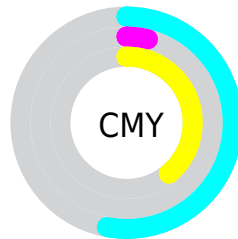
- Red (47%)
- Green (96%)
- Blue (61%)



- Red (47%)
- Yellow (85%)
- Blue (96%)



- Cyan (50%)
- Magenta (0%)
- Yellow (36%)
- Black (4%)




- Cyan (53%)
- Magenta (4%)
- Yellow (39%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.2366, 71.1666, 42.7521 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 46.2366, 71.1666, 42.7521 by changing the saturation by 10% instead.




 46.2366, 71.1666,  
42.7521


 46.2366, 71.1666,  
42.7521


362.4591,  
464.6356, 373.4825


 32.6380, 52.4782,  
29.3607


 83.7987, 120.8709,  
80.6190

 22.0072, 37.3864,  
19.1059


 108.4928,  
152.6556, 105.9315

 13.9788, 25.5068,  
11.5693


 137.6162,  
189.5745, 136.0549

 8.1875, 16.4550,  
6.3321

171.5342,  
232.0119, 171.4076

 4.2680, 9.8467,  
2.9760

210.6121,  
280.3524, 212.4081

 1.8548, 5.2974,  
1.0824

255.2153,

 0.5504, 2.4228,

334.9802, 259.4751

0.0000

305.7092,  
396.2798, 313.0271

0.0000, 0.8376,  
0.0000

0.0000, 0.0000,  
0.0000

46.2366, 71.1666,  
42.7521

46.2366, 71.1666,  
42.7521

41.8665, 69.0744,  
35.3784

51.6875, 73.7954,  
51.2886

38.4961, 67.4722,  
29.1120


58.2818, 76.9861,  
61.0304


36.0415, 66.3196,  
23.9000

66.0837, 80.7728,  
72.0240

34.4013, 65.5657,  
19.6831

75.1507, 85.1845,  
84.3118

 33.4397, 65.1391,  
16.5114

 85.5369, 90.2480,  
97.9342

 91.6420, 93.1841,  
107.7640

# Harmonies

## Analogous

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



54.9039, 71.1666, 26.0563



46.2366, 71.1666, 42.7521



43.1571, 71.1666, 75.9068

# Triad

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



46.2366, 71.1666, 42.7521



67.0872, 71.1666, 189.7129



95.5024, 71.1666, 44.6344

# Complementary

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



46.2366, 71.1666, 42.7521



55.6565, 37.5128, 64.6314

# 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.



99.9806, 71.1666, 79.0916



46.2366, 71.1666, 42.7521



82.2115, 71.1666, 172.0611

# Square

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



46.2366, 71.1666, 42.7521



54.0701, 71.1666, 169.3651



94.8043, 71.1666, 127.2588



83.3131, 71.1666, 26.8340



# Rectangle

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



46.2366, 71.1666, 42.7521



44.2876, 71.1666, 106.6966



94.8043, 71.1666, 127.2588



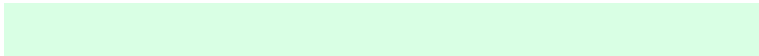
98.0311, 71.1666, 54.1656

# Sweetspot

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



46.2384, 71.1695, 42.7537



78.2538, 91.8146, 86.7303



62.1414, 79.6623, 30.1910



16.3008, 19.4338, 17.9541



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.



46.2384, 71.1695, 42.7537



46.3918, 76.4057, 39.3081



52.8079, 73.7973, 77.3483



16.4761, 18.5496, 18.5253



18.2324, 35.4378, 9.2437



1.6448, 3.1316, 1.0354



# Inverse Universe

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



55.6565, 37.5128, 64.6314



57.8075, 35.4892, 65.7364



49.4652, 35.0362, 32.0285



17.0008, 16.6832, 19.7508



24.5323, 12.1564, 23.3092

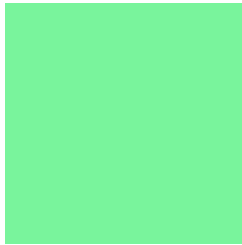


2.2002, 1.0860, 2.2805



# Previews

## White Background



This preview shows how the XYZ color 46.2366, 71.1666, 42.7521 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 46.2366, 71.1666, 42.7521 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

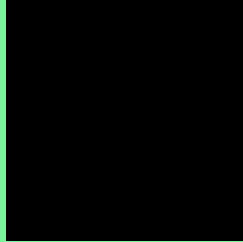
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 46.2366, 71.1666, 42.7521

## Background



This preview shows how black text looks on a background with the XYZ color 46.2366, 71.1666, 42.7521.



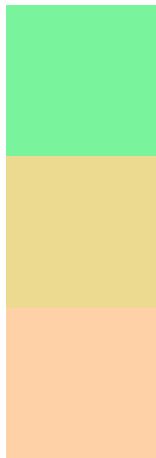
This preview shows how white text looks on a background with the XYZ color 46.2366, 71.1666,



# 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

46.2366, 71.1666, 42.7521

### Protanopia

64.7743, 70.0200, 36.8893

### Deuteranopia

71.0155, 69.6509, 46.2603



## **Tritanopia**

57.7708, 70.6076, 101.8506

# Trichromacy



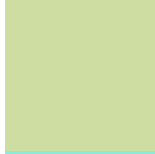
## Original Color

46.2366, 71.1666, 42.7521



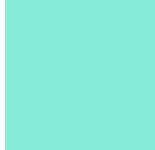
## Protanomaly

55.1420, 68.5774, 38.7642



## Deuteranomaly

58.1857, 68.0087, 44.7106



## Tritanomaly

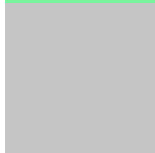
52.5435, 70.1830, 75.7431

# Monochromacy



## Original Color

46.2366, 71.1666, 42.7521



## Achromatopsia

53.0703, 55.8340, 60.8033



## Achromatomaly

48.8523, 59.9055, 53.2441

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.2366, 71.1666, 42.7521 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(121, 244, 156)` looks like.

```
.text, #text, p{  
    color:rgb(121, 244, 156)  
}
```

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(121, 244, 156) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(121, 244, 156) }
```

## Border

The CSS property to change the border of an element to XYZ 46.2366, 71.1666, 42.7521 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(121, 244, 156) }
```



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

```
.border{ border-color:rgb(121, 244, 156) }
```

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

Here you see how a box with a 4 pixel `rgb(121, 244, 156)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(121, 244, 156); -webkit-box-  
shadow:4px 4px 4px 4px rgb(121, 244, 156);  
box-shadow:4px 4px 4px 4px rgb(121, 244,  
156) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.2366, 71.1666, 42.7521 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(121, 244, 156) }
```

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

```
.background{ background-color: rgb(121,  
244, 156) }
```

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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