# Converting Colors

XYZ(73.6382, 46.1829, 100.8647)

Have a look what the booklet for XYZ(73.6382, 46.1829, 100.8647) contains.

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# Color

**XYZ(66.2495, 42.3991, 99.2998)**

# Conversions

Conversions Part 1

| Format | Color |
| --- | --- |
| Hex | FF7AFF |
| RGB | 255, 122, 255 |
| RGB Percent | 100%, 48%, 100% |
| CMY | 0.0000, 0.5215, 0.0000 |
| CMYK | 0.00, 0.52, 0.00, 0.00 |
| HSL | 300°, 100%, 74% |
| HSV | 300°, 52%, 100% |
| XYZ | 66.2495, 42.3991, 99.2998 |
| YIQ | 176.9290, 36.5750, 69.5590 |

# Conversions

Conversions Part 2

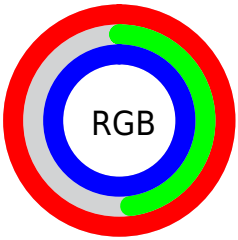
| Format | Color |
| --- | --- |
| RYB | 255, 122, 255 |
| Decimal | 16743167 |
| CIELab | 71.15, 67.69, -43.70 |
| CIELCh | 71, 80.575, 327.155 |
| Yxy | 42.3991, 0.3186, 0.2039 |
| Android (android.graphics.Color) | 4294933247 (0xFFFF7AFF) |
| YUV | 176.9290, 38.4890, 68.4683 |
| Hunter-Lab | 65.1146, 67.6606, -44.8371 |

# Details

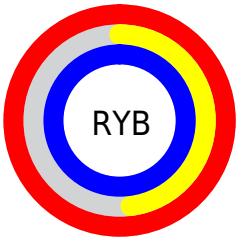
The XYZ color 66.2495, 42.3991, 99.2998 is a light color, and the websafe version is hex FF66FF. A complement of this color would be 47.3002, 77.0634, 30.7962, and the grayscale version is 41.5451, 43.7087, 47.5987.

A 20% lighter version of the original color is 75.4101, 60.7202, 102.3534, and 34.7914, 19.4798, 55.3523 is the 20% darker color. If you saturate the color by 10%, you get 63.5192, 36.9385, 98.3897, and if you desaturate by 10%, it is 69.8027, 49.5053, 100.4842.

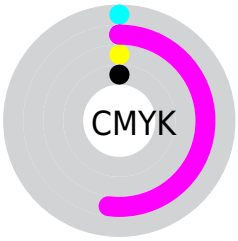
# Distribution



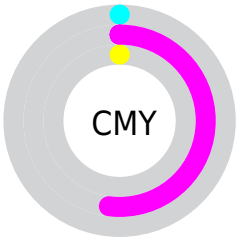

- Red (100%)
- Green (48%)
- Blue (100%)




- Red (100%)
- Yellow (48%)
- Blue (100%)




- Cyan (0%)
- Magenta (52%)
- Yellow (0%)
- Black (0%)




- Cyan (0%)
- Magenta (52%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 66.2495, 42.3991, 99.2998 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 66.2495, 42.3991, 99.2998 by changing the saturation by 10% instead.

66.2495, 42.3991, 99.2998

436.7432, 356.1347, 579.1729

112.9001, 78.8033, 162.2381

142.7753, 102.9911, 201.8159

177.5043, 131.6819, 247.3576

217.4525, 165.2601, 299.2817

262.9851, 204.1101, 358.0068

314.4675,

66.2495, 42.3991, 99.2998

48.7434, 29.4139, 75.1023

34.6297, 19.3942, 55.1944

23.5429, 11.9554, 39.1578

15.1178, 6.7133, 26.5737

8.9890, 3.2835, 17.0237

4.7910, 1.2815, 10.0893

2.1587, 0.1268,

248.6162, 423.9513

372.2651, 299.1630, 497.5338

5.3518

0.7208, 0.0000, 2.3928

0.0000, 0.0000, 0.7825

66.2495, 42.3991, 99.2998

63.5192, 36.9385, 98.3897

61.5437, 32.9873, 97.7312

60.2478, 30.3957, 97.2993

59.5403, 28.9805, 97.0634

66.2495, 42.3991, 99.2998

69.8027, 49.5053, 100.4842

74.2348, 58.3697, 101.9616

79.6001, 69.1001, 103.7500

85.9474, 81.7948, 105.8658

59.2900, 28.4800, 96.9800

93.3225, 96.5449, 108.3242

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.

53.3319, 42.3991, 148.7990

66.2495, 42.3991, 99.2998

72.1463, 42.3991, 49.9503

# Triad

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

66.2495, 42.3991, 99.2998

41.5998, 42.3991, 4.6234

21.3481, 42.3991, 89.0372

# Complementary

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

66.2495, 42.3991, 99.2998

47.3002, 77.0634, 30.7962

# 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.

19.5504, 42.3991, 42.5767

66.2495, 42.3991, 99.2998

29.5838, 42.3991, 6.5981

# Square

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

66.2495, 42.3991, 99.2998

56.0643, 42.3991, 7.6579

22.2018, 42.3991, 16.4635

27.8066, 42.3991, 140.9003

# Rectangle

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

66.2495, 42.3991, 99.2998

70.5048, 42.3991, 27.5405

22.2018, 42.3991, 16.4635

20.2513, 42.3991, 71.7210

# Sweetspot

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

66.2503, 42.4007, 99.3001

83.3872, 76.6744, 105.0124

33.0373, 25.2787, 97.7458

17.5681, 15.8512, 22.3836

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.

66.2503, 42.4007, 99.3001

63.3239, 36.5478, 98.3246

57.3318, 38.8333, 52.3358

18.7928, 18.3004, 22.7918

30.9803, 14.8814, 50.6741

3.0164, 1.4490, 4.9340

# Inverse Universe

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

66.2503, 42.4007, 99.3001

63.3239, 36.5478, 98.3246

52.9184, 79.3106, 60.3813

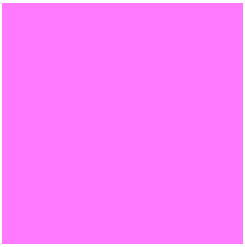
18.7928, 18.3004, 22.7918

30.9803, 14.8814, 50.6741

3.0164, 1.4490, 4.9340

# Previews

## White Background

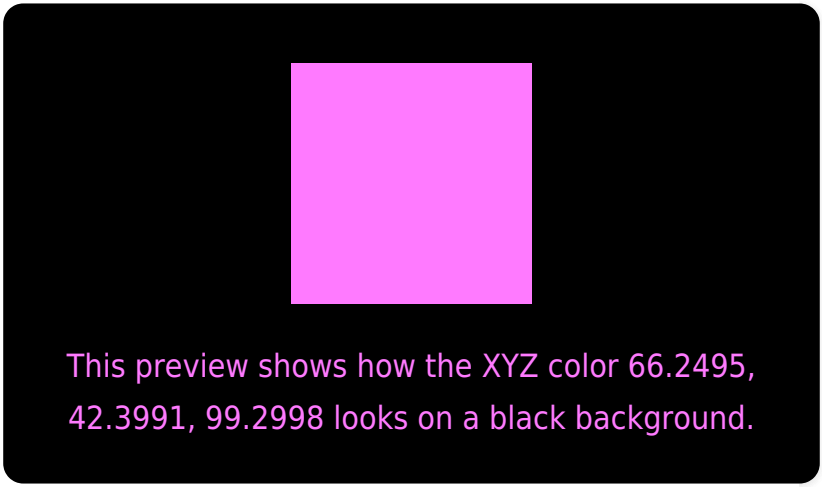


This preview shows how the XYZ color 66.2495, 42.3991, 99.2998 looks on a white background.

### 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




**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 66.2495, 42.3991, 99.2998

## Background

This preview shows how black text looks on a background with the XYZ color 66.2495, 42.3991, 99.2998.

This preview shows how white text looks on a background with the XYZ color 66.2495, 42.3991,

99.2998.

# 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**
66.2495, 42.3991, 99.2998

**Protanopia**
44.4796, 42.7448, 100.5140

**Deuteranopia**
43.9725, 42.9305, 93.1576

**Tritanopia**
53.3268, 42.0468, 37.2035

## Trichromacy

**Original Color**
66.2495, 42.3991, 99.2998

**Protanomaly**
49.6132, 40.6455, 99.8382

**Deuteranomaly**
49.3935, 40.6421, 94.8639

**Tritanomaly**
56.9291, 41.5157, 55.4649

## Monochromacy

**Original Color**
66.2495, 42.3991, 99.2998

**Achromatopsia**
41.7894, 43.9657, 47.8787

**Achromatomaly**
48.2533, 41.5009, 63.2249

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 66.2495, 42.3991, 99.2998 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(255, 122, 255) looks like.

```
.text, #text, p{
    color:rgb(255, 122, 255)
}
```

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(255, 122, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 122, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 66.2495, 42.3991, 99.2998 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(255, 122, 255) }
```

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

```
.border{ border-color:rgb(255, 122, 255) }
```

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

Here you see how a box with a 4 pixel rgb(255, 122, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(255, 122, 255); -webkit-box-shadow:4px 4px 4px 4px rgb(255, 122, 255); box-shadow:4px 4px 4px 4px rgb(255, 122, 255) }
```

# Background

The CSS property to change the background color of an element to XYZ 66.2495, 42.3991, 99.2998 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{ background:rgb(255, 122, 255) }
```

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

```
.background{ background-color:rgb(255, 122, 255) }
```

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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