

# Converting Colors

XYZ(70.0231, 55.7680, 82.6099)

Have a look what the booklet for  
XYZ(70.0231, 55.7680, 82.6099)  
contains.

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# Color

**XYZ(70.0385, 55.7790,  
82.6763)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFAAE7
RGB	255, 170, 231
RGB Percent	100%, 67%, 91%
CMY	0.0000, 0.3333, 0.0941
CMYK	0.00, 0.33, 0.09, 0.00
HSL	317°, 100%, 83%
HSV	317°, 33%, 100%
XYZ	70.0385, 55.7790, 82.6763
YIQ	202.3690, 31.0790, 36.9910

# Conversions

## Conversions Part 2

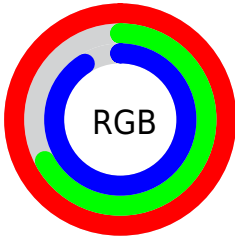
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 170, 231
Decimal	16755431
CIE <sub>Lab</sub>	79.49, 40.03, -17.83
CIE <sub>LCh</sub>	79, 43.821, 335.995
Yxy	55.7790, 0.3359, 0.2675
Android (android.graphics.Color)	4294945511 (0xFFFFAAE7)
YUV	202.3690, 14.1151, 46.1574
Hunter-Lab	74.6853, 36.6946, -13.3540

# Details

The XYZ color **70.0385, 55.7790, 82.6763** is a light color, and the websafe version is hex **FF99CC**. A complement of this color would be **62.0771, 83.9620, 63.9764**, and the grayscale version is **56.2717, 59.2022, 64.4712**.

A 20% lighter version of the original color is **86.4864, 82.8727, 106.0455**, and **37.0092, 27.4562, 43.9064** is the 20% darker color. If you saturate the color by 10%, you get **64.7176, 46.7312, 75.9885**, and if you desaturate by 10%, it is **76.3309, 66.7023, 89.8958**.

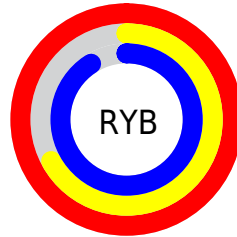
# Distribution



Red (100%)

Green (67%)

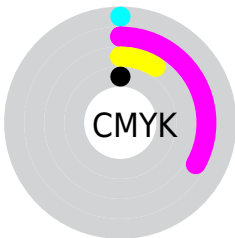
Blue (91%)



Red (100%)

Yellow (67%)

Blue (91%)

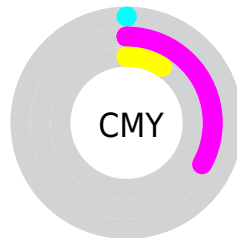


Cyan (0%)

Magenta (33%)

Yellow (9%)

Black (0%)



Cyan (0%)

Magenta (33%)

Yellow (9%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 70.0385, 55.7790, 82.6763 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 70.0385, 55.7790, 82.6763 by changing the saturation by 10% instead.



70.0385, 55.7790,  
82.6763

70.0385, 55.7790,  
82.6763

449.9495,  
408.8581, 523.8498

51.8376, 40.0258,  
61.3841

118.2896, 98.6814,  
138.9672

37.0994, 27.5586,  
44.1026

149.0706,  
126.5993, 174.8029

25.4585, 17.9932,  
30.4134

184.7756,  
159.3409, 216.3236

16.5495, 10.9451,  
19.8979

225.7701,  
197.2906, 263.9477

10.0072, 6.0299,  
12.1375

272.4194,  
240.8328, 318.0939

5.4660, 2.8633,  
6.7137

325.0888,

2.5607, 1.0608,

290.3518, 379.1806

3.2080

384.1437,  
346.2321, 447.6264

■ 0.9260, 0.0000,  
1.2018

■ 0.0000, 0.0000,  
0.0000

■ 70.0385, 55.7790,  
82.6763

■ 70.0385, 55.7790,  
82.6763

■ 64.7176, 46.7312,  
75.9885

■ 76.3309, 66.7023,  
89.8958

■ 60.3100, 39.4441,  
69.8084

■ 83.6409, 79.5933,  
97.6626

■ 56.7572, 33.8012,  
64.1147

■ 92.0162, 94.5464,  
105.9957

■ 53.9919, 29.6687,  
58.8824

95.0500, 100.0000,  
108.9000

■ 51.9364, 26.8922,  
54.0831

■ 50.4961, 25.2833,  
49.6826

■ 49.7870, 24.6788,  
46.9380

# Harmonies

## Analogous

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



63.6041, 55.7790, 109.0268



70.0385, 55.7790, 82.6763



71.7033, 55.7790, 55.8082

# Triad

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



70.0385, 55.7790, 82.6763



51.2673, 55.7790, 24.1436



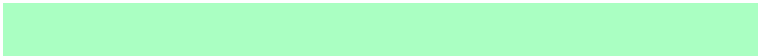
40.4622, 55.7790, 93.9270

# Complementary

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



70.0385, 55.7790, 82.6763



62.0771, 83.9620, 63.9764

# 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.



37.8956, 55.7790, 65.9411



70.0385, 55.7790, 82.6763



43.6739, 55.7790, 29.3401

# Square

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



70.0385, 55.7790, 82.6763



60.2078, 55.7790, 26.3308



39.0030, 55.7790, 43.0640



46.4215, 55.7790, 116.6808



# Rectangle

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



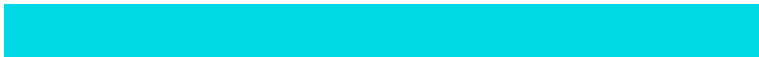
70.0385, 55.7790, 82.6763



69.7397, 55.7790, 41.8614



39.0030, 55.7790, 43.0640



39.2059, 55.7790, 84.5656

# Sweetspot

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



70.0398, 55.7813, 82.6774



86.3101, 84.3406, 100.3745



54.3345, 47.2661, 100.8673



18.2297, 17.6176, 21.2377



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.



70.0398, 55.7813, 82.6774



66.3861, 49.5444, 78.1590



64.8925, 53.7224, 55.5717



18.5611, 18.2077, 21.5718



26.0820, 12.9221, 24.8800



2.5863, 1.2769, 2.6691



# Inverse Universe

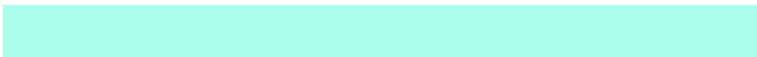
The Inverse Universe completely reimagines the original color for something new.



70.0398, 55.7813, 82.6774



66.3861, 49.5444, 78.1590



67.3586, 86.0746, 91.7886



18.5611, 18.2077, 21.5718



26.0820, 12.9221, 24.8800



2.5863, 1.2769, 2.6691



# Previews

## White Background



This preview shows how the XYZ color 70.0385, 55.7790, 82.6763 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 70.0385, 55.7790, 82.6763 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 70.0385, 55.7790, 82.6763**

## **Background**



This preview shows how black text looks on a background with the XYZ color 70.0385, 55.7790, 82.6763.



This preview shows how white text looks on a background with the XYZ color 70.0385, 55.7790,



# 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

70.0385, 55.7790, 82.6763

### Protanopia

56.2255, 55.9979, 96.6522

### Deuteranopia

57.0719, 55.8019, 80.4359



## Tritanopia

64.7487, 55.9264, 56.6725

# Trichromacy



## Original Color

70.0385, 55.7790, 82.6763



## Protanomaly

60.1643, 55.2303, 91.4939



## Deuteranomaly

60.9629, 55.2546, 80.8509



## Tritanomaly

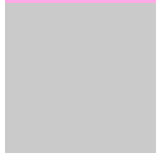
66.6154, 55.8116, 65.6542

# Monochromacy



## Original Color

70.0385, 55.7790, 82.6763



## Achromatopsia

56.1383, 59.0619, 64.3184



## Achromatomaly

60.2425, 57.0032, 70.7784

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 70.0385, 55.7790, 82.6763 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, 170, 231)` looks like.

```
.text, #text, p{  
    color:rgb(255, 170, 231)  
}
```

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, 170, 231) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 170, 231) }
```

## Border

The CSS property to change the border of an element to XYZ 70.0385, 55.7790, 82.6763 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, 170, 231) }
```



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

```
.border{ border-color:rgb(255, 170, 231) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 170, 231)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 170, 231); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 170, 231);  
box-shadow:4px 4px 4px 4px rgb(255, 170,  
231) }
```

# Background

The CSS property to change the background color of an element to XYZ 70.0385, 55.7790, 82.6763 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 170, 231) }
```

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

```
.background{ background-color: rgb(255,  
170, 231) }
```

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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