

# Converting Colors

XYZ(87.4220, 53.1083, 46.5516)

Have a look what the booklet for  
XYZ(87.4220, 53.1083, 46.5516)  
contains.

<b>XYZ(55.0938, 36.4292, 45.2021)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(55.0938, 36.4292,  
45.2021)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF72B0
RGB	255, 114, 176
RGB Percent	100%, 45%, 69%
CMY	0.0000, 0.5529, 0.3098
CMYK	0.00, 0.55, 0.31, 0.00
HSL	334°, 100%, 72%
HSV	334°, 55%, 100%
XYZ	55.0938, 36.4292, 45.2021
YIQ	163.2270, 64.1340, 49.1740

# Conversions

## Conversions Part 2

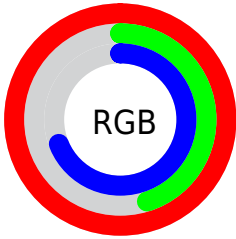
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 114, 176
Decimal	16741040
CIE <sub>Lab</sub>	66.85, 59.80, -6.36
CIE <sub>LCh</sub>	67, 60.133, 353.930
Yxy	36.4292, 0.4030, 0.2664
Android (android.graphics.Color)	4294931120 (0xFFFF72B0)
YUV	163.2270, 6.2971, 80.4849
Hunter-Lab	60.3566, 57.3116, -2.1537

# Details

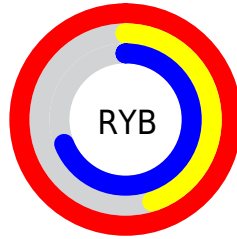
The XYZ color **55.0938, 36.4292, 45.2021** is a light color, and the websafe version is hex **FF6699**. A complement of this color would be **52.3269, 78.9485, 62.9369**, and the grayscale version is **34.8712, 36.6872, 39.9524**.

A 20% lighter version of the original color is **70.1802, 55.8356, 83.4224**, and **27.6069, 15.9836, 20.6989** is the 20% darker color. If you saturate the color by 10%, you get **51.2676, 30.9215, 37.3151**, and if you desaturate by 10%, it is **59.8722, 43.6030, 54.1414**.

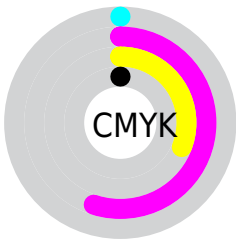
# Distribution



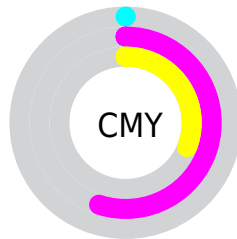
- Red (100%)
- Green (45%)
- Blue (69%)



- Red (100%)
- Yellow (45%)
- Blue (69%)



- Cyan (0%)
- Magenta (55%)
- Yellow (31%)
- Black (0%)




- Cyan (0%)
- Magenta (55%)
- Yellow (31%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 55.0938, 36.4292, 45.2021 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 55.0938, 36.4292, 45.2021 by changing the saturation by 10% instead.





 55.0938, 36.4292,  
45.2021


 55.0938, 36.4292,  
45.2021

396.3980,  
330.8326, 383.7754


 39.7110, 24.7659,  
31.2725


 96.8259, 69.6940,  
84.3453

 27.4965, 15.9027,  
20.5463


 123.9059, 92.0643,  
110.3959

 18.0849, 9.4553,  
12.6047

 155.6156,  
118.7723, 141.3241

 11.1110, 5.0393,  
7.0294

192.3204,  
150.2025, 177.5482

 6.2094, 2.2704,  
3.4018

234.3857,  
186.7392, 219.4869

 3.0147, 0.7580,  
1.3033

282.1769,

 1.1615, 0.0000,

228.7669, 267.5586

0.0645

336.0592,  
276.6699, 322.1819

■ 0.0757, 0.0000,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 55.0938, 36.4292,  
45.2021

■ 55.0938, 36.4292,  
45.2021

■ 51.2676, 30.9215,  
37.3151

■ 59.8722, 43.6030,  
54.1414

■ 48.3178, 26.9358,  
30.4314

■ 65.6649, 52.5604,  
64.1742

■ 46.1606, 24.3122,  
24.4998

■ 72.5320, 63.4146,  
75.3417

■ 44.6923, 22.8514,  
19.4605

■ 80.5276, 76.2676,  
87.6818

■ 44.1714, 22.4326,  
17.3665

■ 89.7024, 91.2143,  
101.2305

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.



50.7752, 36.4292, 77.0752



55.0938, 36.4292, 45.2021



53.2004, 36.4292, 22.6180

# Triad

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



55.0938, 36.4292, 45.2021



28.0035, 36.4292, 9.2355



25.3134, 36.4292, 95.4985

# Complementary

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



55.0938, 36.4292, 45.2021



52.3269, 78.9485, 62.9369

# 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.



20.9712, 36.4292, 63.6518



55.0938, 36.4292, 45.2021



22.3234, 36.4292, 16.8770

# Square

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



55.0938, 36.4292, 45.2021



36.5077, 36.4292, 7.7943



19.9811, 36.4292, 34.6000



32.8079, 36.4292, 113.2432



# Rectangle

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



55.0938, 36.4292, 45.2021



48.8119, 36.4292, 14.0729



19.9811, 36.4292, 34.6000



23.4934, 36.4292, 85.5592

# Sweetspot

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



55.0947, 36.4310, 45.2028



79.0790, 73.9253, 85.4883



45.6935, 30.4047, 98.0681



16.5710, 15.2503, 17.7557



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.



55.0947, 36.4310, 45.2028



51.0305, 30.5905, 36.7946



51.1221, 36.1638, 20.2078



18.3411, 18.1198, 20.4136



23.1526, 11.7503, 9.4539



2.3081, 1.1656, 1.2038



# Inverse Universe

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



55.0947, 36.4310, 45.2028



51.0305, 30.5905, 36.7946



58.5426, 77.9022, 106.5589



18.3411, 18.1198, 20.4136



23.1526, 11.7503, 9.4539



2.3081, 1.1656, 1.2038



# Previews

## White Background



This preview shows how the XYZ color 55.0938, 36.4292, 45.2021 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

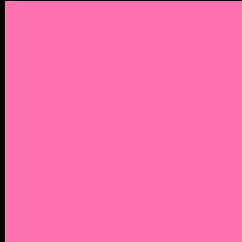
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 55.0938, 36.4292, 45.2021 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

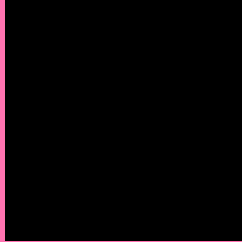
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 55.0938, 36.4292, 45.2021**

## **Background**



This preview shows how black text looks on a background with the XYZ color 55.0938, 36.4292, 45.2021.



This preview shows how white text looks on a background with the XYZ color 55.0938, 36.4292,



# 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

55.0938, 36.4292, 45.2021

### Protanopia

36.9562, 36.6701, 64.1617

### Deuteranopia

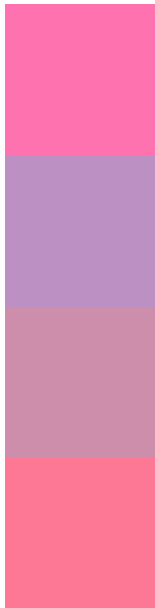
37.2928, 36.5484, 42.6251



## Tritanopia

51.0315, 36.3411, 26.1547

# Trichromacy



## Original Color

55.0938, 36.4292, 45.2021

## Protanomaly

40.9233, 34.7509, 56.7752

## Deuteranomaly

42.2962, 35.3037, 43.6148

## Tritanomaly

52.2067, 36.2665, 32.2655

# Monochromacy



## Original Color

55.0938, 36.4292, 45.2021

## Achromatopsia

34.8123, 36.6253, 39.8849

## Achromatomaly

39.9582, 34.8137, 41.6595

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 55.0938, 36.4292, 45.2021 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, 114, 176)` looks like.

```
.text, #text, p{  
    color:rgb(255, 114, 176)  
}
```

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, 114, 176) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 114, 176) }
```

## Border

The CSS property to change the border of an element to XYZ 55.0938, 36.4292, 45.2021 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, 114, 176) }
```



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

```
.border{ border-color:rgb(255, 114, 176) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 114, 176)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 114, 176); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 114, 176);  
box-shadow:4px 4px 4px 4px rgb(255, 114,  
176) }
```

# Background

The CSS property to change the background color of an element to XYZ 55.0938, 36.4292, 45.2021 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 114, 176) }
```

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

```
.background{ background-color: rgb(255,  
114, 176) }
```

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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