

# Converting Colors

XYZ(46.2470, 35.5977, 71.3322)

Have a look what the booklet for  
XYZ(46.2470, 35.5977, 71.3322)  
contains.

<b>XYZ(46.3604, 35.7023, 71.4656)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(46.3604, 35.7023,  
71.4656)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CB89DB
RGB	203, 137, 219
RGB Percent	80%, 54%, 86%
CMY	0.2039, 0.4627, 0.1412
CMYK	0.07, 0.37, 0.00, 0.14
HSL	288°, 53%, 70%
HSV	288°, 37%, 86%
XYZ	46.3604, 35.7023, 71.4656
YIQ	166.0820, 13.0140, 39.4940

# Conversions

## Conversions Part 2

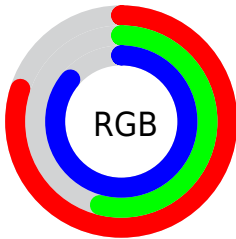
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	203, 137, 219
Decimal	13339099
CIE <sub>Lab</sub>	66.29, 38.88, -31.93
CIE <sub>LCh</sub>	66, 50.309, 320.607
Yxy	35.7023, 0.3020, 0.2325
Android (android.graphics.Color)	4291529179 (0xFFFCB89DB)
YUV	166.0820, 26.0886, 32.3771
Hunter-Lab	59.7514, 33.9311, -29.0878

# Details

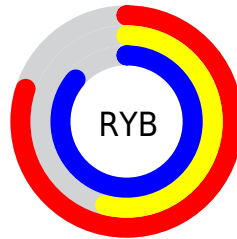
The XYZ color **46.3604, 35.7023, 71.4656** is a light color, and the websafe version is hex **CC99FF**. A complement of this color would be **42.9850, 59.2424, 32.8380**, and the grayscale version is **36.1597, 38.0428, 41.4286**.

A 20% lighter version of the original color is **77.9208, 65.7416, 103.1903**, and **22.1621, 15.4732, 36.9405** is the 20% darker color. If you saturate the color by 10%, you get **42.4101, 29.5048, 70.4781**, and if you desaturate by 10%, it is **50.9770, 43.1830, 72.6667**.

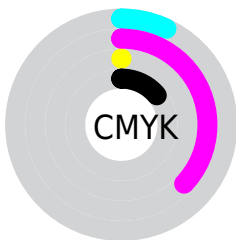
# Distribution



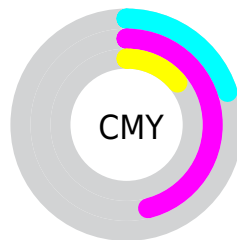
- Red (80%)
- Green (54%)
- Blue (86%)



- Red (80%)
- Yellow (54%)
- Blue (86%)



- Cyan (7%)
- Magenta (37%)
- Yellow (0%)
- Black (14%)




- Cyan (20%)
- Magenta (46%)
- Yellow (14%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.3604, 35.7023, 71.4656 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 46.3604, 35.7023, 71.4656 by changing the saturation by 10% instead.





 46.3604, 35.7023,  
71.4656


 46.3604, 35.7023,  
71.4656

362.9474,  
327.6575, 484.6069


 32.7361, 24.2044,  
52.2381


 83.9827, 68.5723,  
122.9971

 22.0827, 15.4853,  
36.8113

 108.7114, 90.7132,  
156.1381

 14.0346, 9.1607,  
24.7668


 137.8723,  
117.1705, 194.7541

 8.2266, 4.8461,  
15.6860

171.8308,  
148.3287, 239.2636

 4.2933, 2.1573,  
9.1503

210.9522,  
184.5720, 290.0850

 1.8694, 0.6965,  
4.7412

255.6019,

 0.5589, 0.0000,

226.2850, 347.6370

2.0401

306.1451,  
273.8521, 412.3381

■ 0.0000, 0.0000,  
0.5798

■ 0.0000, 0.0000,  
0.0000

■ 46.3604, 35.7023,  
71.4656

■ 46.3604, 35.7023,  
71.4656

■ 42.4101, 29.5048,  
70.4781

■ 50.9770, 43.1830,  
72.6667

■ 39.0837, 24.5088,  
69.6891

■ 56.2917, 52.0128,  
74.0910

■ 36.3396, 20.6304,  
69.0851

■ 62.3386, 62.2587,  
75.7499

■ 34.1291, 17.7728,  
68.6501

■ 69.1485, 73.9818,  
77.6538

■ 32.3953, 15.8225,  
68.3650

■ 76.7503, 87.2397,  
79.8121

■ 31.0613, 14.6259,  
68.2043

■ 80.7448, 93.2335,  
80.7585

■ 30.7517, 14.3760,  
68.1724

■ 82.1224, 93.9436,  
80.8230

■ 83.5338, 94.6712,  
80.8890

■ 84.9792, 95.4164,  
80.9567

# Harmonies

## Analogous

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



39.2738, 35.7023, 91.8475



46.3604, 35.7023, 71.4656



50.2657, 35.7023, 46.0204

# Triad

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



46.3604, 35.7023, 71.4656



36.3454, 35.7023, 10.6840



22.1337, 35.7023, 55.3200

# Complementary

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



46.3604, 35.7023, 71.4656



42.9850, 59.2424, 32.8380

# 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.



21.5890, 35.7023, 32.5081



46.3604, 35.7023, 71.4656



29.1015, 35.7023, 11.5928

# Square

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



46.3604, 35.7023, 71.4656



43.9469, 35.7023, 14.8736



23.9538, 35.7023, 18.0930



25.5706, 35.7023, 80.3884



# Rectangle

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



46.3604, 35.7023, 71.4656



50.1967, 35.7023, 31.7478



23.9538, 35.7023, 18.0930



21.6283, 35.7023, 46.9934

# Sweetspot

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



46.3616, 35.7038, 71.4664



84.7604, 82.3675, 106.0389



34.5610, 33.3481, 71.6336



17.8904, 17.2028, 22.6275



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.



46.3616, 35.7038, 71.4664



60.9417, 43.3074, 99.7549



47.9428, 36.8659, 55.8649



13.3525, 13.1398, 16.4846



18.3238, 8.5705, 40.4269



1.2521, 0.5887, 2.6221



# Inverse Universe

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



43.9100, 35.2528, 34.6288



57.2333, 42.7208, 39.7110



42.1354, 58.5767, 43.0835



13.1594, 13.0928, 14.1005



17.6085, 9.0444, 2.3185



1.1713, 0.5981, 0.3109



# Previews

## White Background



This preview shows how the XYZ color 46.3604, 35.7023, 71.4656 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

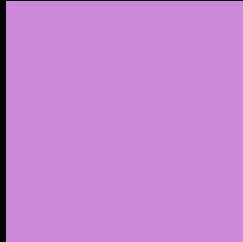
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 46.3604, 35.7023, 71.4656 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

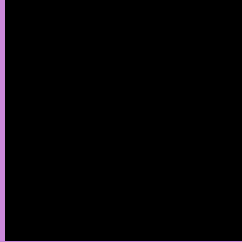
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 46.3604, 35.7023, 71.4656**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.3604, 35.7023, 71.4656.



This preview shows how white text looks on a background with the XYZ color 46.3604, 35.7023,

71.4656.

# 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

46.3604, 35.7023, 71.4656

### Protanopia

37.6918, 36.0866, 84.3357

### Deuteranopia

36.8766, 35.9985, 69.2948



## Tritanopia

39.6861, 35.6702, 38.5116

# Trichromacy



## Original Color

46.3604, 35.7023, 71.4656



## Protanomaly

39.8467, 35.3200, 79.5802



## Deuteranomaly

39.6097, 35.4159, 69.7140



## Tritanomaly

41.8576, 35.6340, 48.9279

# Monochromacy



## Original Color

46.3604, 35.7023, 71.4656



## Achromatopsia

36.2450, 38.1326, 41.5264



## Achromatomaly

39.0687, 36.5292, 50.8906

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.3604, 35.7023, 71.4656 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(203, 137, 219)` looks like.

```
.text, #text, p{  
    color:rgb(203, 137, 219)  
}
```

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(203, 137, 219) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(203, 137, 219) }
```

## Border

The CSS property to change the border of an element to XYZ 46.3604, 35.7023, 71.4656 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".

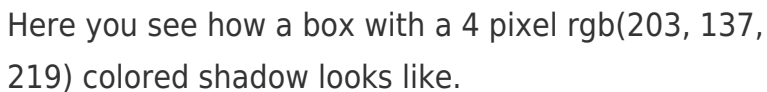
```
.border, #border, table{ border:4px solid rgb(203, 137, 219) }
```



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

```
.border{ border-color:rgb(203, 137, 219) }
```

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



Here you see how a box with a 4 pixel `rgb(203, 137, 219)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(203, 137, 219); -webkit-box-shadow:4px 4px 4px 4px rgb(203, 137, 219); box-shadow:4px 4px 4px 4px rgb(203, 137, 219) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.3604, 35.7023, 71.4656 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(203, 137, 219) }
```

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

```
.background{ background-color: rgb(203,  
137, 219) }
```

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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