

# Converting Colors

XYZ(40.6028, 21.9936, 96.7127)

Have a look what the booklet for  
XYZ(40.6028, 21.9936, 96.7127)  
contains.

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# Color

**XYZ(40.6716, 22.0410,  
96.7185)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BB45FF
RGB	187, 69, 255
RGB Percent	73%, 27%, 100%
CMY	0.2667, 0.7294, 0.0000
CMYK	0.27, 0.73, 0.00, 0.00
HSL	278°, 100%, 64%
HSV	278°, 73%, 100%
XYZ	40.6716, 22.0410, 96.7185
YIQ	125.4860, 10.6220, 82.8620

# Conversions

## Conversions Part 2

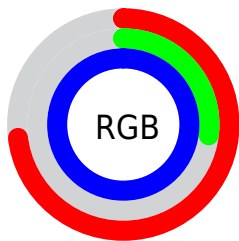
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	187, 69, 255
Decimal	12273151
CIE <sub>Lab</sub>	54.07, 74.75, -71.44
CIE <sub>LCh</sub>	54, 103.403, 316.296
Yxy	22.0410, 0.2551, 0.1382
Android (android.graphics.Color)	4290463231 (0xFFBB45FF)
YUV	125.4860, 63.8504, 53.9478
Hunter-Lab	46.9478, 72.4784, -89.2814

# Details

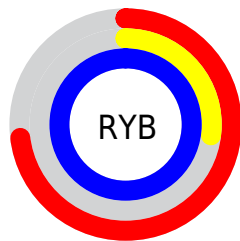
The XYZ color **40.6716, 22.0410, 96.7185** is a light color, and the websafe version is hex **CC33FF**. The color can be described as light washed purple. A complement of this color would be **47.1508, 77.2681, 18.0598**, and the grayscale version is **19.4465, 20.4593, 22.2801**.

A 20% lighter version of the original color is **64.3508, 42.3552, 99.3915**, and **18.9801, 8.6204, 53.4869** is the 20% darker color. If you saturate the color by 10%, you get **37.2192, 18.4118, 96.1999**, and if you desaturate by 10%, it is **44.9472, 27.0946, 97.4685**.

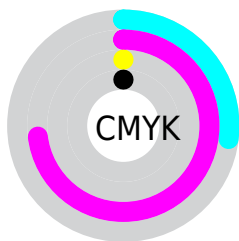
# Distribution



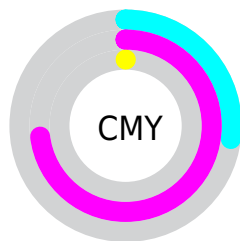
- Red (73%)
- Green (27%)
- Blue (100%)



- Red (73%)
- Yellow (27%)
- Blue (100%)



- Cyan (27%)
- Magenta (73%)
- Yellow (0%)
- Black (0%)




- Cyan (27%)
- Magenta (73%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.6716, 22.0410, 96.7185 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 40.6716, 22.0410, 96.7185 by changing the saturation by 10% instead.




 40.6716, 22.0410,  
96.7185


 40.6716, 22.0410,  
96.7185


340.0323,  
262.7603, 570.7763


 28.2491, 13.8870,  
72.9613


 75.4630, 46.8138,  
158.6526


 18.6549, 8.0421,  
53.4527


 98.5626, 64.2013,  
197.6666


 11.5237, 4.1219,  
37.7741


 125.9519, 85.4355,  
242.6033

 6.4901, 1.7420,  
25.5069

 157.9964,  
110.9008, 293.8813

 3.1888, 0.4506,  
16.2327

 195.0613,  
140.9815, 351.9190

 1.2544, 0.0000,  
9.5328

237.5120,

 0.1487, 0.0000,

176.0621, 417.1351

4.9888

285.7139,  
216.5269, 489.9480

■ 0.0000, 0.0000,  
2.1821

■ 0.0000, 0.0000,  
0.6640

■ 40.6716, 22.0410,  
96.7185

■ 40.6716, 22.0410,  
96.7185

■ 37.2192, 18.4118,  
96.1999

■ 44.9472, 27.0946,  
97.4685

■ 34.4912, 16.0169,  
95.8814

■ 50.1227, 33.7251,  
98.4756

■ 32.9050, 14.8780,  
95.7452

■ 56.2679, 42.0673,  
99.7619

■ 63.4446, 52.2409,  
101.3474

71.7088, 64.3543,  
103.2499

81.1124, 78.5075,  
105.4861

91.7036, 94.7934,  
108.0714

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.



27.5854, 22.0410, 145.0421



40.6716, 22.0410, 96.7185



49.5776, 22.0410, 41.7581

# Triad

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



40.6716, 22.0410, 96.7185



26.4714, 22.0410, 0.0000



6.3401, 22.0410, 45.7752

# Complementary

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



40.6716, 22.0410, 96.7185



47.1508, 77.2681, 18.0598

# 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.



6.2273, 22.0410, 12.1602



40.6716, 22.0410, 96.7185



15.4732, 22.0410, 0.0000

# Square

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



40.6716, 22.0410, 96.7185



39.6100, 22.0410, 1.3299



8.9267, 22.0410, 1.6374



9.3220, 22.0410, 101.7959



# Rectangle

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



40.6716, 22.0410, 96.7185



50.4398, 22.0410, 17.8557



8.9267, 22.0410, 1.6374



6.0147, 22.0410, 31.4107

# Sweetspot

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



40.6726, 22.0418, 96.7185



72.5435, 65.5965, 103.4457



29.4788, 26.4341, 98.1563



15.0178, 13.2839, 22.0225



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.



40.6726, 22.0418, 96.7185



35.7552, 17.0593, 96.0160



57.6794, 31.2410, 78.0006



18.1110, 17.9490, 22.7599



17.3634, 7.8616, 50.0369



1.8108, 0.8274, 4.8775



# Inverse Universe

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



47.8836, 27.3227, 26.4169



44.6798, 23.4033, 17.6780



40.2260, 73.5899, 22.6274



18.2838, 18.0969, 20.1119



22.6517, 11.5500, 6.8162

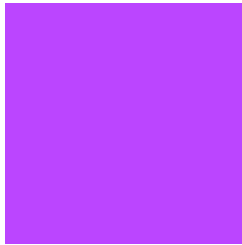


2.2559, 1.1447, 0.9288



# Previews

## White Background



This preview shows how the XYZ color 40.6716, 22.0410, 96.7185 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

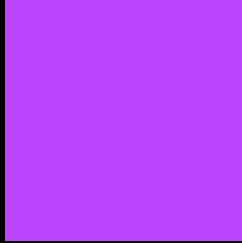
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 40.6716, 22.0410, 96.7185 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 × Fail

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

**XYZ 40.6716, 22.0410, 96.7185**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.6716, 22.0410, 96.7185.



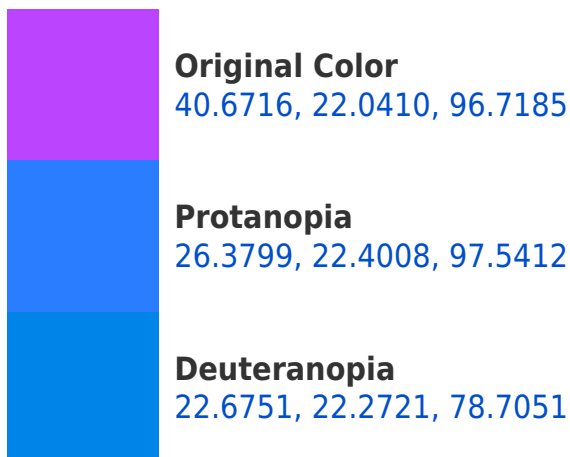
This preview shows how white text looks on a background with the XYZ color 40.6716, 22.0410,

96.7185.

# 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





## Tritanopia

25.2859, 21.7160, 21.9277

# Trichromacy



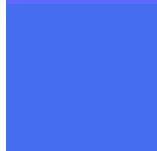
## Original Color

40.6716, 22.0410, 96.7185



## Protanomaly

27.8209, 19.7560, 96.9547



## Deuteranomaly

23.5807, 18.4575, 84.7579



## Tritanomaly

29.0477, 20.5982, 41.4746

# Monochromacy



## Original Color

40.6716, 22.0410, 96.7185



## Achromatopsia

19.4927, 20.5079, 22.3331



## Achromatomaly

24.7107, 19.3776, 41.4676

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.6716, 22.0410, 96.7185 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(187, 69, 255)` looks like.

```
.text, #text, p{  
    color:rgb(187, 69, 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(187, 69, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(187, 69, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 40.6716, 22.0410, 96.7185 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(187, 69, 255) }
```



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

```
.border{ border-color:rgb(187, 69, 255) }
```

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

Here you see how a box with a 4 pixel rgb(187, 69, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(187, 69, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(187, 69, 255);  
box-shadow:4px 4px 4px 4px rgb(187, 69,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.6716, 22.0410, 96.7185 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(187, 69, 255) }
```

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

```
.background{ background-color: rgb(187, 69,  
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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