

# Converting Colors

XYZ(44.3822, 40.3831,  
100.0633)

Have a look what the booklet for  
XYZ(44.3822, 40.3831, 100.0633)  
contains.

<b>XYZ(44.4623, 40.5432, 100.0899)</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(44.4623, 40.5432,  
100.0899)**

# Conversions

## Conversions Part 1

Format	Color
Hex	99A4FF
RGB	153, 164, 255
RGB Percent	60%, 64%, 100%
CMY	0.4000, 0.3569, 0.0000
CMYK	0.40, 0.36, 0.00, 0.00
HSL	234°, 100%, 80%
HSV	234°, 40%, 100%
XYZ	44.4623, 40.5432, 100.0899
YIQ	171.0850, -35.7670, 25.9690

# Conversions

## Conversions Part 2

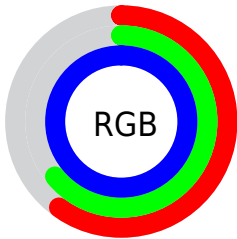
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">153, 163, 255</a>
Decimal	<a href="#">10069247</a>
CIELab	<a href="#">69.85, 18.08, -46.44</a>
CIElCh	<a href="#">70, 49.833, 291.268</a>
Yxy	<a href="#">40.5432, 0.2402, 0.2190</a>
Android (android.graphics.Color)	<a href="#">4288259327</a> ( <a href="#">0xFF99A4FF</a> )
YUV	<a href="#">171.0850, 41.3701, -15.8605</a>
Hunter-Lab	<a href="#">63.6735, 13.2152, -48.6278</a>

# Details

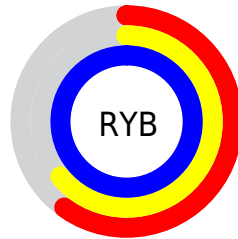
The XYZ color **44.4623, 40.5432, 100.0899** is a light color, and the websafe version is hex **9999FF**. A complement of this color would be **79.3413, 88.2624, 42.9935**, and the grayscale version is **38.5642, 40.5726, 44.1835**.

A 20% lighter version of the original color is **69.9599, 71.5847, 104.7377**, and **20.9170, 18.2069, 55.8379** is the 20% darker color. If you saturate the color by 10%, you get **36.4399, 30.8951, 98.6505**, and if you desaturate by 10%, it is **54.2440, 52.1807, 101.8207**.

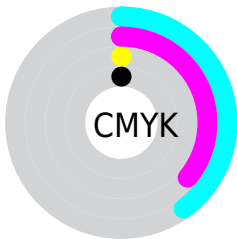
# Distribution



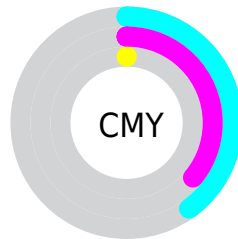
- Red (60%)
- Green (64%)
- Blue (100%)



- Red (60%)
- Yellow (64%)
- Blue (100%)



- Cyan (40%)
- Magenta (36%)
- Yellow (0%)
- Black (0%)



- Cyan (40%)
- Magenta (36%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 44.4623, 40.5432, 100.0899 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 44.4623, 40.5432, 100.0899 by changing the saturation by 10% instead.



■ 44.4623, 40.5432,  
100.0899

■ 44.4623, 40.5432,  
100.0899

355.4119,  
348.4078, 581.7300

■ 31.2336, 27.9623,  
75.7583

■ 81.1550, 75.9900,  
163.3337

■ 20.9295, 18.2973,  
55.7289

■ 105.3497, 99.6247,  
203.0829

■ 13.1846, 11.1636,  
39.5831

133.9304,  
127.7127, 248.8085

■ 7.6337, 6.1770,  
26.9023

167.2625,  
160.6386, 300.9290

■ 3.9113, 2.9530,  
17.2681

205.7113,  
198.7866, 359.8628

■ 1.6521, 1.1072,  
10.2618

249.6423,

■ 0.4260, 0.0000,

242.5413, 426.0285

5.4650

299.4207,  
292.2868, 499.8448

■ 0.0000, 0.0000,  
2.4591

■ 0.0000, 0.0000,  
0.8184

■ 44.4623, 40.5432,  
100.0899

■ 44.4623, 40.5432,  
100.0899

■ 36.4399, 30.8951,  
98.6505

■ 54.2440, 52.1807,  
101.8207

■ 30.0677, 23.1205,  
97.4857

■ 65.8772, 65.9063,  
103.8568

■ 25.2310, 17.0978,  
96.5781

■ 79.4524, 81.8172,  
106.2125

■ 21.7981, 12.6892,  
95.9081

95.0500, 100.0000,  
108.9000

■ 19.6148, 9.7359,  
95.4531

■ 18.4536, 8.0271,  
95.1845

■ 18.4534, 8.0269,  
95.1845

# Harmonies

## Analogous

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



36.2198, 40.5432, 104.5020



44.4623, 40.5432, 100.0899



51.9994, 40.5432, 78.3281

# Triad

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



44.4623, 40.5432, 100.0899



49.1190, 40.5432, 17.6993



25.1052, 40.5432, 37.7164

# Complementary

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



44.4623, 40.5432, 100.0899



79.3413, 88.2624, 42.9935

# 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.



27.6221, 40.5432, 21.7126



44.4623, 40.5432, 100.0899



40.9470, 40.5432, 13.1142

# Square

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



44.4623, 40.5432, 100.0899



54.9390, 40.5432, 29.8669



33.1595, 40.5432, 14.2684



25.7722, 40.5432, 62.3722



# Rectangle

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



44.4623, 40.5432, 100.0899



55.2381, 40.5432, 60.0660



33.1595, 40.5432, 14.2684



25.5924, 40.5432, 31.3191

# Sweetspot

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



44.4637, 40.5446, 100.0902



76.5754, 78.4530, 105.7147



65.0906, 84.7699, 97.8052



15.9977, 16.3327, 22.5593



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.



44.4637, 40.5446, 100.0902



37.9077, 32.6698, 98.9157



51.2062, 41.2238, 99.8659



17.1606, 17.6929, 22.7606



9.6928, 4.2952, 49.7528



0.9929, 0.5166, 4.8606



# Inverse Universe

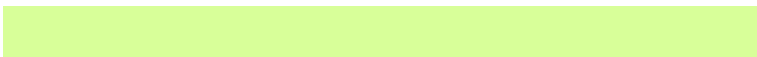
The Inverse Universe completely reimagines the original color for something new.



59.3330, 46.7243, 41.0148



54.7455, 39.9948, 31.9464



69.8000, 88.4040, 43.5237



18.0890, 18.0189, 19.0857



21.6807, 11.1616, 1.7030

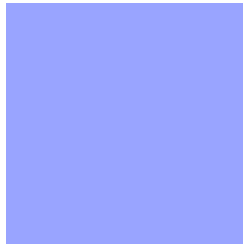


2.1358, 1.0967, 0.2965



# Previews

## White Background



This preview shows how the XYZ color 44.4623, 40.5432, 100.0899 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

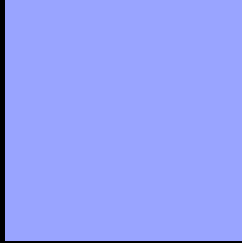
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 44.4623, 40.5432, 100.0899 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

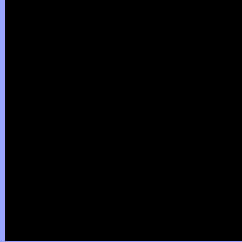
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 44.4623, 40.5432, 100.0899**

## **Background**



This preview shows how black text looks on a background with the XYZ color 44.4623, 40.5432, 100.0899.



This preview shows how white text looks on a background with the XYZ color 44.4623, 40.5432,



# 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

44.4623, 40.5432, 100.0899

### Protanopia

42.6839, 40.4329, 100.1624

### Deuteranopia

41.7502, 40.5182, 99.3863



## Tritanopia

35.4426, 40.5242, 55.2441

# Trichromacy



## Original Color

44.4623, 40.5432, 100.0899

## Protanomaly

43.3633, 40.5122, 100.1419

## Deuteranomaly

42.5233, 40.3686, 99.3166

## Tritanomaly

38.2178, 40.1997, 69.3634

# Monochromacy



## Original Color

44.4623, 40.5432, 100.0899

## Achromatopsia

38.7082, 40.7240, 44.3485

## Achromatomaly

39.9731, 40.1620, 61.5224

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 44.4623, 40.5432, 100.0899 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(153, 164, 255)` looks like.

```
.text, #text, p{  
    color:rgb(153, 164, 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(153, 164, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(153, 164, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 44.4623, 40.5432, 100.0899 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(153, 164, 255) }
```



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

```
.border{ border-color:rgb(153, 164, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(153, 164, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(153, 164, 255); -webkit-box-shadow:4px 4px 4px 4px rgb(153, 164, 255); box-shadow:4px 4px 4px 4px rgb(153, 164, 255) }
```

# Background

The CSS property to change the background color of an element to XYZ 44.4623, 40.5432, 100.0899 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(153, 164, 255) }
```

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

```
.background{ background-color: rgb(153,  
164, 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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor