

Converting Colors

XYZ(21.5369, 29.8816,
123.1148)

Have a look what the booklet for
XYZ(21.5369, 29.8816, 123.1148)
contains.

XYZ(32.4247, 35.9695, 99.8416)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(32.4247, 35.9695,
99.8416)**

Conversions

Conversions Part 1

Format	Color
Hex	00AAFF
RGB	0, 170, 255
RGB Percent	0%, 67%, 100%
CMY	0.9997, 0.3333, 0.0000
CMYK	1.00, 0.33, 0.00, 0.00
HSL	200°, 100%, 50%
HSV	200°, 100%, 100%
XYZ	32.4247, 35.9695, 99.8416
YIQ	128.8600, -128.6050, -9.6050

Conversions

Conversions Part 2

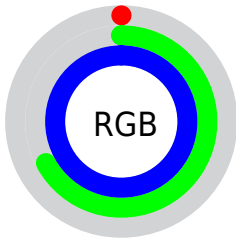
Format	Color
RYB	0, 102, 255
Decimal	43775
CIELab	66.50, -6.22, -52.07
CIELCh	66, 52.438, 263.186
Yxy	35.9695, 0.1927, 0.2138
Android (android.graphics.Color)	4278233855 (0xFF00AAFF)
YUV	128.8600, 62.1870, -113.0102
Hunter-Lab	59.9746, -8.4511, -56.7198

Details

The XYZ color **32.4247, 35.9695, 99.8416** is a dark color, and the websafe version is hex **0099FF**. The color can be described as middle saturated azure. A complement of this color would be **44.4943, 27.7680, 3.0167**, and the grayscale version is **20.6468, 21.7221, 23.6554**.

A 20% lighter version of the original color is **51.6573, 64.5152, 104.3378**, and **16.6715, 17.0341, 55.8353** is the 20% darker color. If you saturate the color by 10%, you get **32.4206, 35.9613, 99.8402**, and if you desaturate by 10%, it is **34.4860, 39.4757, 100.4097**.

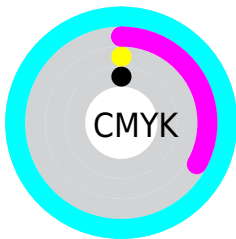
Distribution



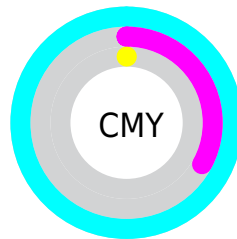
- Red (0%)
- Green (67%)
- Blue (100%)



- Red (0%)
- Yellow (40%)
- Blue (100%)



- Cyan (100%)
- Magenta (33%)
- Yellow (0%)
- Black (0%)



- Cyan (100%)
- Magenta (33%)
- Yellow (0%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 32.4247, 35.9695, 99.8416 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 32.4247, 35.9695, 99.8416 by changing the saturation by 10% instead.

■ 32.4247, 35.9695,
99.8416

■ 32.4247, 35.9695,
99.8416

304.7604,
328.8272, 580.9271

■ 21.8432, 24.4106,
75.5521

■ 62.8370, 68.9850,
162.9895

■ 13.8577, 15.6385,
55.5609

■ 83.3985, 91.2104,
202.6849

■ 8.1028, 9.2687,
39.4493

■ 108.0175,
117.7601, 248.3528

■ 4.2132, 4.9169,
26.7989

■ 137.0591,
149.0186, 300.4116

■ 1.8234, 2.1986,
17.1912

■ 170.8889,
185.3701, 359.2799

■ 0.5317, 0.7192,
10.2075

209.8721,

■ 0.0000, 0.0000,

227.1991, 425.3762

5.4293

254.3742,
274.8900, 499.1191

■ 0.0000, 0.0000,
2.4382

■ 0.0000, 0.0000,
0.8071

■ 32.4247, 35.9695,
99.8416

■ 32.4247, 35.9695,
99.8416

■ 32.4206, 35.9613,
99.8402

■ 34.4860, 39.4757,
100.4097

■ 37.1904, 43.4689,
101.0379

■ 40.7052, 48.0384,
101.7347

■ 45.1329, 53.2396,
102.5053

■ 50.5595, 59.1197,
103.3542

■ 57.0606, 65.7199,
104.2855

■ 64.7039, 73.0778,
105.3029

■ 73.5514, 81.2276,
106.4097

■ 83.6601, 90.2012,
107.6090

Harmonies

Analogous

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



25.9021, 35.9695, 85.0862



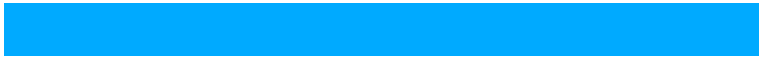
32.4247, 35.9695, 99.8416



40.4954, 35.9695, 94.0012

Triad

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



32.4247, 35.9695, 99.8416



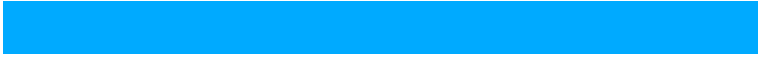
50.0611, 35.9695, 24.4657



23.4524, 35.9695, 18.5204

Complementary

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



32.4247, 35.9695, 99.8416



44.4943, 27.7680, 3.0167

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.



28.5720, 35.9695, 11.3164



32.4247, 35.9695, 99.8416



44.0755, 35.9695, 13.7144

Square

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



32.4247, 35.9695, 99.8416



51.5125, 35.9695, 44.5319



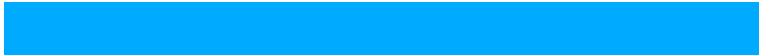
36.0140, 35.9695, 9.9775



21.2615, 35.9695, 34.2470

Rectangle

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



32.4247, 35.9695, 99.8416



45.6189, 35.9695, 79.9991



36.0140, 35.9695, 9.9775



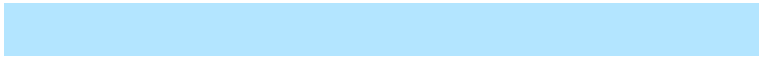
24.8463, 35.9695, 15.3103

Sweetspot

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



32.4259, 35.9706, 99.8417



64.6811, 73.0563, 105.3000



37.4025, 72.1771, 20.5644



13.1243, 14.9530, 22.4444



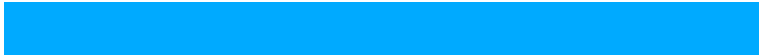
0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



32.4259, 35.9706, 99.8417



32.4206, 35.9613, 99.8402



18.8988, 8.9163, 95.3327



18.0147, 19.4010, 23.0452



17.0835, 19.0766, 52.2163



1.7639, 2.0586, 5.1176

Inverse Universe

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



48.4966, 24.1639, 40.1391



48.4936, 24.1615, 40.1271



64.9120, 68.6034, 9.8226



18.5201, 18.1913, 21.3559



25.4112, 12.6538, 21.3474



2.5250, 1.2524, 2.3458

Previews

White Background



This preview shows how the XYZ color 32.4247, 35.9695, 99.8416 looks on a white background.

Color Contrast Check

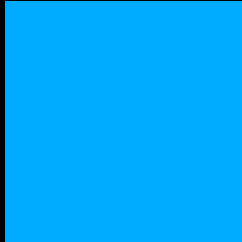
Large Text (above 18pt) WCAG AA × Fail

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 32.4247, 35.9695, 99.8416 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

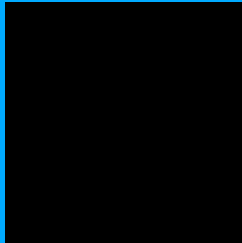
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

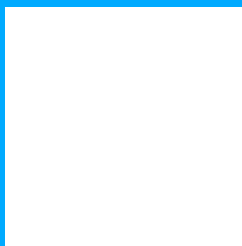
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 32.4247, 35.9695, 99.8416

Background



This preview shows how black text looks on a background with the XYZ color 32.4247, 35.9695, 99.8416.

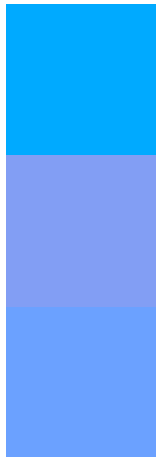


This preview shows how white text looks on a background with the XYZ color 32.4247, 35.9695,

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

32.4247, 35.9695, 99.8416

Protanopia

37.7619, 35.7312, 90.4945

Deuteranopia

36.8583, 35.8355, 99.5821



Tritanopia

25.6345, 36.0460, 55.4757

Trichromacy



Original Color

32.4247, 35.9695, 99.8416

Protanomaly

33.4309, 34.4570, 93.6958

Deuteranomaly

33.7094, 34.9999, 99.5867

Tritanomaly

27.7911, 35.9570, 69.7656

Monochromacy



Original Color

32.4247, 35.9695, 99.8416

Achromatopsia

20.8660, 21.9526, 23.9064

Achromatomaly

21.1908, 24.8355, 44.2343

CSS Examples

Text

The CSS property to change the color of the text to XYZ 32.4247, 35.9695, 99.8416 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(0, 170, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 170, 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(0, 170, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 170, 255) }
```

Border

The CSS property to change the border of an element to XYZ 32.4247, 35.9695, 99.8416 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(0, 170, 255) }
```


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

```
.border{ border-color:rgb(0, 170, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 170, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 170, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 170, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 170,  
255) }
```

Background

The CSS property to change the background color of an element to XYZ 32.4247, 35.9695, 99.8416 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 170, 255) }
```

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

```
.background{ background-color: rgb(0, 170,  
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