

# Converting Colors

XYZ(9.0983, 17.1970, 97.9260)

Have a look what the booklet for  
XYZ(9.0983, 17.1970, 97.9260)  
contains.

<b>XYZ(27.8725, 26.8649, 98.3242)</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(27.8725, 26.8649,  
98.3242)**

# Conversions

## Conversions Part 1

Format	Color
Hex	008FFF
RGB	0, 143, 255
RGB Percent	0%, 56%, 100%
CMY	0.9997, 0.4392, 0.0000
CMYK	1.00, 0.44, 0.00, 0.00
HSL	206°, 100%, 50%
HSV	206°, 100%, 100%
XYZ	27.8725, 26.8649, 98.3242
YIQ	113.0110, -121.1800, 4.5160

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	0, 92, 255
Decimal	36863
CIE <sub>Lab</sub>	58.85, 9.56, -64.26
CIE <sub>LCh</sub>	59, 64.971, 278.463
Yxy	26.8649, 0.1821, 0.1755
Android (android.graphics.Color)	4278226943 (0xFF008FFF)
YUV	113.0110, 70.0006, -99.1106
Hunter-Lab	51.8314, 5.2841, -76.1913

# Details

The XYZ color **27.8725, 26.8649, 98.3242** is a dark color, and the websafe version is hex **3399FF**. The color can be described as dark saturated azure. A complement of this color would be **47.0435, 32.8662, 3.8667**, and the grayscale version is **15.5316, 16.3405, 17.7948**.

A 20% lighter version of the original color is **44.4720, 50.1446, 101.9427**, and **14.0807, 12.0366, 54.4045** is the 20% darker color. If you saturate the color by 10%, you get **27.8672, 26.8544, 98.3224**, and if you desaturate by 10%, it is **30.0547, 30.6128, 98.9325**.

# Distribution



- Red (0%)
- Green (56%)
- Blue (100%)



- Red (0%)
- Yellow (36%)
- Blue (100%)



- Cyan (100%)
- Magenta (44%)
- Yellow (0%)
- Black (0%)



- Cyan (100%)
- Magenta (44%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 27.8725, 26.8649, 98.3242 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 27.8725, 26.8649, 98.3242 by changing the saturation by 10% instead.



■ 27.8725, 26.8649,  
98.3242

■ 27.8725, 26.8649,  
98.3242

283.9483,  
287.0024, 576.0071

■ 18.3695, 17.4718,  
74.2927

■ 55.6909, 54.6670,  
160.8841

■ 11.3169, 10.5714,  
54.5354

■ 74.7370, 73.8448,  
200.2495

■ 6.3493, 5.7794,  
38.6338

■ 97.6949, 97.0529,  
245.5633

■ 3.1013, 2.7114,  
26.1693

■ 124.9299,  
124.6757, 297.2441

■ 1.2075, 0.9830,  
16.7234

■ 156.8074,  
157.0977, 355.7103

■ 0.1123, 0.0000,  
9.8776

193.6927,

■ 0.0000, 0.0000,

194.7032, 421.3805

5.2134

235.9513,  
237.8767, 494.6733

■ 0.0000, 0.0000,  
2.3121

■ 0.0000, 0.0000,  
0.7380

■ 27.8725, 26.8649,  
98.3242

■ 27.8725, 26.8649,  
98.3242

■ 27.8672, 26.8544,  
98.3224

■ 30.0547, 30.6128,  
98.9325

■ 32.9481, 34.9834,  
99.6237

■ 36.7223, 40.0712,  
100.4068

■ 41.4823, 45.9368,  
101.2881

■ 47.3167, 52.6319,  
102.2729

■ 54.3035, 60.2028,  
103.3660

■ 62.5125, 68.6915,  
104.5718

■ 72.0079, 78.1365,  
105.8944

■ 82.8489, 88.5740,  
107.3376

# Harmonies

## Analogous

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



20.2795, 26.8649, 92.5967



27.8725, 26.8649, 98.3242



36.3818, 26.8649, 79.2746

# Triad

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



27.8725, 26.8649, 98.3242



39.6183, 26.8649, 9.4781



13.7050, 26.8649, 15.8453

# Complementary

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



27.8725, 26.8649, 98.3242



47.0435, 32.8662, 3.8667

# 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.



17.0906, 26.8649, 6.5028



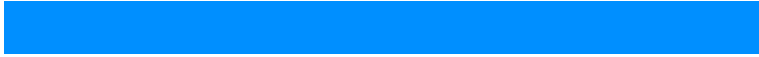
27.8725, 26.8649, 98.3242



31.6264, 26.8649, 4.3967

# Square

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



27.8725, 26.8649, 98.3242



44.0340, 26.8649, 23.2193



23.3306, 26.8649, 3.7010



13.1133, 26.8649, 36.2468



# Rectangle

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



27.8725, 26.8649, 98.3242



41.0682, 26.8649, 58.9795



23.3306, 26.8649, 3.7010



14.5138, 26.8649, 11.6938

# Sweetspot

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



27.8736, 26.8656, 98.3242



62.4845, 68.6631, 104.5678



38.6053, 72.6582, 26.8979



12.6010, 13.9064, 22.2700



0.0000, 0.0000, 0.0000

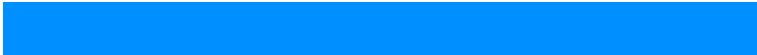


20.3446, 21.4041, 23.3091

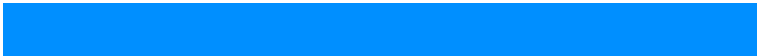


# Same Dimension

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



27.8736, 26.8656, 98.3242



27.8672, 26.8544, 98.3224



18.2526, 7.6238, 95.1173



17.8479, 19.0674, 22.9896



14.7126, 14.3347, 51.4260



1.5414, 1.6135, 5.0435



# Inverse Universe

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



46.1988, 23.2449, 28.0386



46.1953, 23.2421, 28.0241



71.8165, 82.4124, 12.1244



18.4359, 18.1577, 20.9124



24.2144, 12.1751, 15.0455



2.4126, 1.2074, 1.7543



# Previews

## White Background



This preview shows how the XYZ color 27.8725, 26.8649, 98.3242 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

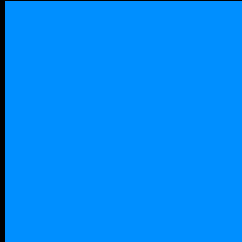
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 27.8725, 26.8649, 98.3242 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

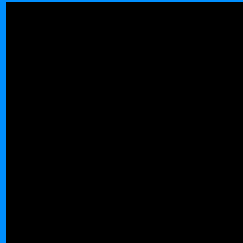
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

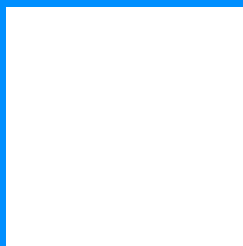
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 27.8725, 26.8649, 98.3242**

## **Background**



This preview shows how black text looks on a background with the XYZ color 27.8725, 26.8649, 98.3242.



This preview shows how white text looks on a background with the XYZ color 27.8725, 26.8649,



# 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

27.8725, 26.8649, 98.3242

### Protanopia

30.0690, 26.8056, 93.2117

### Deuteranopia

27.7119, 26.8007, 97.4784



## Tritanopia

18.8635, 26.5670, 40.6929

# Trichromacy



**Original Color**

27.8725, 26.8649, 98.3242

**Protanomaly**

28.2761, 26.2710, 94.8473

**Deuteranomaly**

27.7119, 26.8007, 97.4784

**Tritanomaly**

21.3754, 26.2567, 57.9743

# Monochromacy



**Original Color**

27.8725, 26.8649, 98.3242

**Achromatopsia**

15.6958, 16.5132, 17.9829

**Achromatomaly**

16.6717, 18.5096, 38.2913

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 27.8725, 26.8649, 98.3242 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, 143, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 143, 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, 143, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 143, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 27.8725, 26.8649, 98.3242 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, 143, 255) }
```



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

```
.border{ border-color:rgb(0, 143, 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, 143, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 143, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 143, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 143,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 27.8725, 26.8649, 98.3242 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 143, 255) }
```

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

```
.background{ background-color: rgb(0, 143,  
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