

# Converting Colors

XYZ(29.7018, 30.1615, 98.4514)

Have a look what the booklet for  
XYZ(29.7018, 30.1615, 98.4514)  
contains.

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# Color

**XYZ(29.7721, 30.1730,  
98.8626)**

# Conversions

## Conversions Part 1

Format	Color
Hex	1699FF
RGB	22, 153, 255
RGB Percent	9%, 60%, 100%
CMY	0.9136, 0.4000, 0.0000
CMYK	0.91, 0.40, 0.00, 0.00
HSL	206°, 100%, 54%
HSV	206°, 91%, 100%
XYZ	29.7721, 30.1730, 98.8626
YIQ	125.4590, -110.8180, 3.9500

# Conversions

## Conversions Part 2

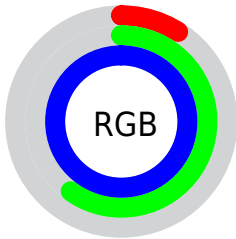
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	22, 106, 255
Decimal	1481215
CIE Lab	61.80, 4.21, -59.52
CIE LCh	62, 59.671, 274.045
Yxy	30.1730, 0.1875, 0.1900
Android (android.graphics.Color)	4279671295 (0xFF1699FF)
YUV	125.4590, 63.8637, -90.7335
Hunter-Lab	54.9300, 0.6198, -68.2588

# Details

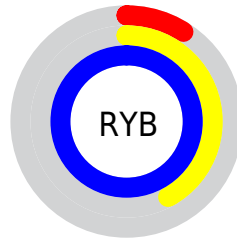
The XYZ color **29.7721, 30.1730, 98.8626** is a dark color, and the websafe version is hex **0099FF**. The color can be described as middle washed azure. A complement of this color would be **48.5982, 35.7440, 5.0991**, and the grayscale version is **19.4704, 20.4844, 22.3075**.

A 20% lighter version of the original color is **47.5653, 55.5587, 102.8247**, and **15.0433, 13.7777, 55.2926** is the 20% darker color. If you saturate the color by 10%, you get **27.9250, 26.9700, 98.3417**, and if you desaturate by 10%, it is **32.5527, 34.4477, 99.5411**.

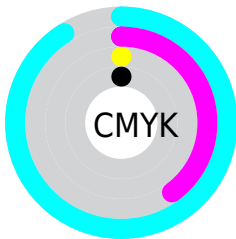
# Distribution



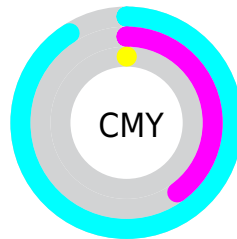
- Red (9%)
- Green (60%)
- Blue (100%)



- Red (9%)
- Yellow (42%)
- Blue (100%)



- Cyan (91%)
- Magenta (40%)
- Yellow (0%)
- Black (0%)



- Cyan (91%)
- Magenta (40%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 29.7721, 30.1730, 98.8626 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 29.7721, 30.1730, 98.8626 by changing the saturation by 10% instead.



■ 29.7721, 30.1730,  
98.8626

■ 29.7721, 30.1730,  
98.8626

292.7696,  
302.7100, 577.7554

■ 19.8129, 19.9699,  
74.7394

■ 58.6907, 59.9357,  
161.6315

■ 12.3666, 12.3732,  
54.8990

■ 78.3808, 80.2640,  
201.1142

■ 7.0678, 6.9984,  
38.9228

■ 102.0452,  
104.7363, 246.5539

■ 3.5513, 3.4611,  
26.3923

■ 130.0493,  
133.7369, 298.3691

■ 1.4515, 1.3769,  
16.8890

■ 162.7584,  
167.6502, 356.9783

■ 0.2925, 0.1996,  
9.9942

200.5379,

■ 0.0000, 0.0000,

206.8605, 422.8000

5.2896

243.7532,  
251.7523, 496.2529

■ 0.0000, 0.0000,  
2.3565

■ 0.0000, 0.0000,  
0.7626

■ 29.7721, 30.1730,  
98.8626

■ 29.7721, 30.1730,  
98.8626

■ 27.9250, 26.9700,  
98.3417

■ 32.5527, 34.4477,  
99.5411

■ 36.1954, 39.4272,  
100.3102

■ 40.8095, 45.1742,  
101.1764

■ 46.4852, 51.7418,  
102.1449

■ 53.3017, 59.1765,  
103.2207

■ 61.3299, 67.5208,  
104.4081

■ 70.6345, 76.8137,  
105.7114

■ 81.2755, 87.0916,  
107.1344

■ 93.3088, 98.3884,  
108.6807

# Harmonies

## Analogous

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



22.4868, 30.1730, 90.1431



29.7721, 30.1730, 98.8626



38.1311, 30.1730, 84.2162

# Triad

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



29.7721, 30.1730, 98.8626



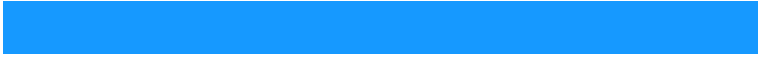
43.3252, 30.1730, 13.9133



16.9987, 30.1730, 17.1583

# Complementary

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



29.7721, 30.1730, 98.8626



48.5982, 35.7440, 5.0991

# 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.



20.9334, 30.1730, 8.2703



29.7721, 30.1730, 98.8626



35.9138, 30.1730, 7.0975

# Square

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



29.7721, 30.1730, 98.8626



46.8197, 30.1730, 29.8564



27.6121, 30.1730, 5.6552



15.9581, 30.1730, 36.0443



# Rectangle

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



29.7721, 30.1730, 98.8626



42.9411, 30.1730, 65.9040



27.6121, 30.1730, 5.6552



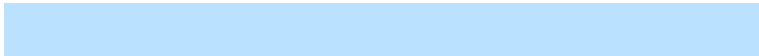
17.9857, 30.1730, 13.2493

# Sweetspot

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



29.7732, 30.1739, 98.8627



65.2220, 71.4496, 104.9613



39.6664, 73.1209, 30.7591



13.3027, 14.6307, 22.3728



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.



29.7732, 30.1739, 98.8627



27.9250, 26.9700, 98.3417



19.0614, 8.7502, 95.2921



17.8502, 19.0721, 22.9904



14.7428, 14.3951, 51.4361



1.5443, 1.6193, 5.0444



# Inverse Universe

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



47.2776, 24.1354, 32.3042



46.2244, 23.2538, 28.1777



72.3894, 83.3264, 13.0295



18.4371, 18.1581, 20.9187



24.2297, 12.1812, 15.1257



2.4141, 1.2080, 1.7620



# Previews

## White Background



This preview shows how the XYZ color 29.7721, 30.1730, 98.8626 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

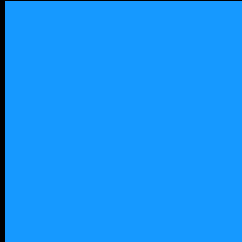
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 29.7721, 30.1730, 98.8626 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

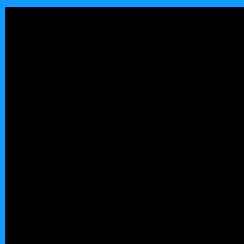
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

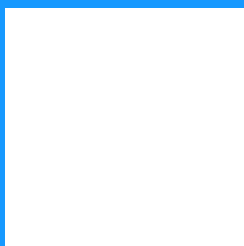
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 29.7721, 30.1730, 98.8626**

## **Background**



This preview shows how black text looks on a background with the XYZ color 29.7721, 30.1730, 98.8626.



This preview shows how white text looks on a background with the XYZ color 29.7721, 30.1730,



# 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

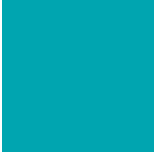
29.7721, 30.1730, 98.8626

### Protanopia

32.8578, 30.0304, 92.0603

### Deuteranopia

31.2031, 30.1909, 98.7906



## **Tritanopia**

21.2916, 30.0449, 45.7513

# Trichromacy



**Original Color**

29.7721, 30.1730, 98.8626

**Protanomaly**

30.7469, 29.5778, 94.5310

**Deuteranomaly**

30.4320, 30.0313, 98.8004

**Tritanomaly**

23.8645, 29.9491, 62.2806

# Monochromacy



**Original Color**

29.7721, 30.1730, 98.8626

**Achromatopsia**

19.4927, 20.5079, 22.3331

**Achromatomaly**

20.1349, 22.3812, 42.2885

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 29.7721, 30.1730, 98.8626 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(22, 153, 255)` looks like.

```
.text, #text, p{  
    color:rgb(22, 153, 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(22, 153, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(22, 153, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 29.7721, 30.1730, 98.8626 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(22, 153, 255) }
```



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

```
.border{ border-color:rgb(22, 153, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(22, 153, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(22, 153, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(22, 153, 255);  
box-shadow:4px 4px 4px 4px rgb(22, 153,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 29.7721, 30.1730, 98.8626 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(22, 153, 255) }
```

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

```
.background{ background-color: rgb(22, 153,  
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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