

# Converting Colors

XYZ(21.0656, 9.3328, 69.9728)

Have a look what the booklet for  
XYZ(21.0656, 9.3328, 69.9728)  
contains.

<b>XYZ(21.0700, 9.3389, 69.7993)</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(21.0700, 9.3389,  
69.7993)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	7900DE
RGB	121, 0, 222
RGB Percent	47%, 0%, 87%
CMY	0.5255, 1.0000, 0.1294
CMYK	0.45, 1.00, 0.00, 0.13
HSL	273°, 100%, 44%
HSV	273°, 100%, 87%
XYZ	21.0700, 9.3389, 69.7993
YIQ	61.4870, 0.8540, 94.6940

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	121, 0, 222
Decimal	7930078
CIE <sub>Lab</sub>	36.63, 75.76, -81.71
CIE <sub>LCh</sub>	37, 111.426, 312.836
Yxy	9.3389, 0.2103, 0.0932
Android (android.graphics.Color)	4286120158 (0xFF7900DE)
YUV	61.4870, 79.1329, 52.1929
Hunter-Lab	30.5596, 69.5914, -114.0288

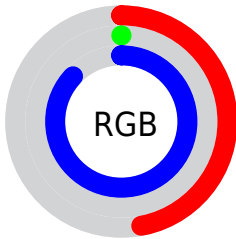
# Details

The XYZ color **21.0700, 9.3389, 69.7993** is a dark color, and the websafe version is hex **6600CC**.

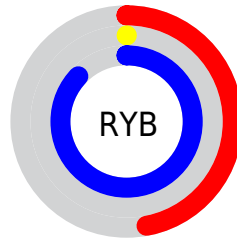
The color can be described as dark washed purple. A complement of this color would be **31.4877, 55.0092, 8.9583**, and the grayscale version is **4.3961, 4.6250, 5.0367**.

A 20% lighter version of the original color is **40.1374, 22.7570, 96.8848**, and **8.3129, 3.5009, 35.8349** is the 20% darker color. If you saturate the color by 10%, you get **21.0707, 9.3392, 69.7996**, and if you desaturate by 10%, it is **22.8518, 10.6891, 69.9662**.

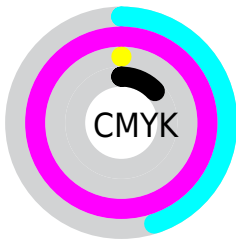
# Distribution



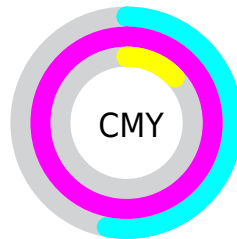
- Red (47%)
- Green (0%)
- Blue (87%)



- Red (47%)
- Yellow (0%)
- Blue (87%)



- Cyan (45%)
- Magenta (100%)
- Yellow (0%)
- Black (13%)




- Cyan (53%)
- Magenta (100%)
- Yellow (13%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 21.0700, 9.3389, 69.7993 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 21.0700, 9.3389, 69.7993 by changing the saturation by 10% instead.




 21.0700, 9.3389,  
69.7993


 21.0700, 9.3389,  
69.7993


250.3749,  
185.8863, 478.6151


 13.2879, 4.9629,  
50.8871


 44.6944, 24.5444,  
120.6009


 7.7055, 2.2255,  
35.7427


 61.2674, 36.1426,  
153.3275


 3.9573, 0.7338,  
23.9474


 81.5015, 50.9171,  
191.4959

 1.6780, 0.0000,  
15.0828

 105.7620, 69.2522,  
235.5247

 0.4424, 0.0000,  
8.7302

 134.4142, 91.5322,  
285.8325

 0.0000, 0.0000,  
4.4712

 167.8236,

 0.0000, 0.0000,

118.1417, 342.8378

1.8873

206.3553,  
149.4649, 406.9592

0.0000, 0.0000,  
0.4846

0.0000, 0.0000,  
0.0000

21.0700, 9.3389,  
69.7993

21.0700, 9.3389,  
69.7993

21.0707, 9.3392,  
69.7996

22.8518, 10.6891,  
69.9662

25.1197, 12.7859,  
70.2514

27.9872, 15.8492,  
70.6916

31.5199, 20.0045,  
71.3074

■ 35.7736, 25.3573,  
72.1165

■ 40.7974, 32.0006,  
73.1339

■ 46.6357, 40.0176,  
74.3737

■ 53.3292, 49.4847,  
75.8482

■ 60.9157, 60.4724,  
77.5692

# Harmonies

## Analogous

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



12.1108, 9.3389, 107.8754



21.0700, 9.3389, 69.7993



28.1566, 9.3389, 25.7136

# Triad

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



21.0700, 9.3389, 69.7993



13.3230, 9.3389, 0.0000



1.2559, 9.3389, 20.9673

# Complementary

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



21.0700, 9.3389, 69.7993



31.4877, 55.0092, 8.9583

# 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.



1.3266, 9.3389, 2.6358



21.0700, 9.3389, 69.7993



6.2761, 9.3389, 0.0000

# Square

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



21.0700, 9.3389, 69.7993



22.3377, 9.3389, 0.0000



2.6226, 9.3389, 0.0000



2.3248, 9.3389, 62.8198



# Rectangle

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



21.0700, 9.3389, 69.7993



29.3975, 9.3389, 8.4255



2.6226, 9.3389, 0.0000



1.1734, 9.3389, 12.1366

# Sweetspot

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



21.0707, 9.3392, 69.7996



63.6451, 54.5066, 101.7741



18.0950, 15.0943, 71.0673



12.8683, 10.6220, 21.6220



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.



21.0707, 9.3392, 69.7996



28.6961, 12.7082, 95.5482



42.3387, 20.4154, 65.7301



13.6624, 13.6095, 17.2945



12.6453, 5.6142, 41.4655



0.9793, 0.4422, 2.8790



# Inverse Universe

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



32.4731, 16.4691, 13.7781



44.3929, 22.5211, 18.5328



26.1619, 52.2589, 8.9206



13.9652, 13.8037, 15.5870



19.3429, 9.8041, 8.4712



1.3855, 0.6975, 0.8228



# Previews

## White Background



This preview shows how the XYZ color 21.0700, 9.3389, 69.7993 looks on a white 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



# Black Background



## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

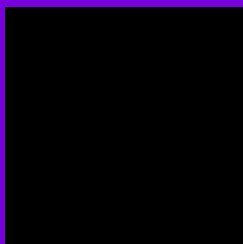
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**XYZ 21.0700, 9.3389, 69.7993**

## **Background**



This preview shows how black text looks on a background with the XYZ color 21.0700, 9.3389, 69.7993.



This preview shows how white text looks on a background with the XYZ color 21.0700, 9.3389,



# 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

21.0700, 9.3389, 69.7993

### Protanopia

11.3852, 9.7517, 43.9300

### Deuteranopia

9.4909, 9.7821, 31.5249



## Tritanopia

9.6004, 9.7804, 11.7377

# Trichromacy



## Original Color

21.0700, 9.3389, 69.7993

## Protanomaly

12.2082, 7.1139, 52.3594

## Deuteranomaly

10.5876, 6.7759, 42.8693

## Tritanomaly

11.4666, 7.3925, 25.6335

# Monochromacy



## Original Color

21.0700, 9.3389, 69.7993

## Achromatopsia

4.4355, 4.6665, 5.0818

## Achromatomaly

7.6830, 4.6461, 18.2611

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 21.0700, 9.3389, 69.7993 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(121, 0, 222)` looks like.

```
.text, #text, p{  
    color:rgb(121, 0, 222)  
}
```

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(121, 0, 222) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(121, 0, 222) }
```

## Border

The CSS property to change the border of an element to XYZ 21.0700, 9.3389, 69.7993 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(121, 0, 222) }
```



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

```
.border{ border-color:rgb(121, 0, 222) }
```

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

Here you see how a box with a 4 pixel `rgb(121, 0, 222)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(121, 0, 222); -webkit-box-  
shadow:4px 4px 4px 4px rgb(121, 0, 222);  
box-shadow:4px 4px 4px 4px rgb(121, 0,  
222) }
```

# Background

The CSS property to change the background color of an element to XYZ 21.0700, 9.3389, 69.7993 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(121, 0, 222) }
```

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

```
.background{ background-color: rgb(121, 0,  
222) }
```

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