

Converting Colors

XYZ(22.8773, 10.0253, 80.9658)

Have a look what the booklet for
XYZ(22.8773, 10.0253, 80.9658)
contains.

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Color

**XYZ(22.8938, 10.0364,
80.8513)**

Conversions

Conversions Part 1

Format	Color
Hex	7700ED
RGB	119, 0, 237
RGB Percent	47%, 0%, 93%
CMY	0.5333, 1.0000, 0.0706
CMYK	0.50, 1.00, 0.00, 0.07
HSL	270°, 100%, 46%
HSV	270°, 100%, 93%
XYZ	22.8938, 10.0364, 80.8513
YIQ	62.5990, -5.1530, 98.9350

Conversions

Conversions Part 2

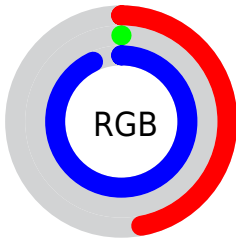
Format	Color
R_{YB}	119, 0, 237
Decimal	7799021
CIE _{Lab}	37.91, 78.74, -88.16
CIE _{LCh}	38, 118.205, 311.767
Yxy	10.0364, 0.2012, 0.0882
Android (android.graphics.Color)	4285989101 (0xFF7700ED)
YUV	62.5990, 85.9797, 49.4637
Hunter-Lab	31.6803, 73.5528, -129.1379

Details

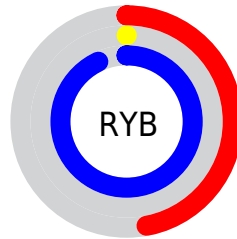
The XYZ color **22.8938, 10.0364, 80.8513** is a dark color, and the websafe version is hex **9900FF**. The color can be described as dark washed purple. A complement of this color would be **37.7548, 64.4198, 10.4444**, and the grayscale version is **4.5458, 4.7825, 5.2082**.

A 20% lighter version of the original color is **40.2101, 22.9024, 96.9090**, and **9.3090, 3.8590, 42.9021** is the 20% darker color. If you saturate the color by 10%, you get **22.8946, 10.0368, 80.8516**, and if you desaturate by 10%, it is **24.9364, 11.5651, 81.0390**.

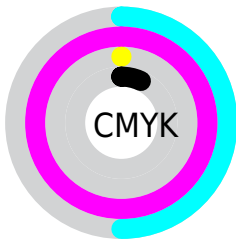
Distribution



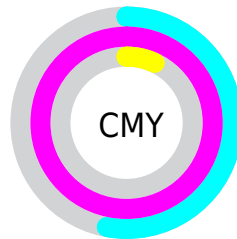
- Red (47%)
- Green (0%)
- Blue (93%)



- Red (47%)
- Yellow (0%)
- Blue (93%)



- Cyan (50%)
- Magenta (100%)
- Yellow (0%)
- Black (7%)



- Cyan (53%)
- Magenta (100%)
- Yellow (7%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 22.8938, 10.0364, 80.8513 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 22.8938, 10.0364, 80.8513 by changing the saturation by 10% instead.

■ 22.8938, 10.0364,
80.8513

■ 22.8938, 10.0364,
80.8513

259.7246,
190.9317, 517.5794

■ 14.6354, 5.4231,
59.8889

■ 47.6868, 25.8639,
136.3841

■ 8.6485, 2.4976,
42.9043

■ 64.9521, 37.8470,
171.7916

■ 4.5679, 0.8754,
29.4792

■ 85.9505, 53.0554,
212.8512

■ 2.0282, 0.0000,
19.1950

■ 111.0471, 71.8735,
259.9814

■ 0.6497, 0.0000,
11.6330

■ 140.6075, 94.6858,
313.6008

■ 0.0000, 0.0000,
6.3748

■ 174.9970,

■ 0.0000, 0.0000,

121.8767, 374.1279

3.0018

214.5809,
153.8305, 441.9812

■ 0.0000, 0.0000,
1.0956

■ 0.0000, 0.0000,
0.0000

■ 22.8938, 10.0364,
80.8513

■ 22.8938, 10.0364,
80.8513

■ 22.8946, 10.0368,
80.8516

■ 24.9364, 11.5651,
81.0390

■ 27.5780, 13.9840,
81.3667

■ 30.9491, 17.5434,
81.8760

■ 35.1289, 22.3919,
82.5916

■ 40.1843, 28.6547,
83.5340

■ 46.1748, 36.4418,
84.7213

■ 53.1537, 45.8517,
86.1698

■ 61.1702, 56.9746,
87.8942

■ 70.2699, 69.8940,
89.9083

Harmonies

Analogous

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



12.8269, 10.0364, 123.6574



22.8938, 10.0364, 80.8513



31.1237, 10.0364, 29.8526

Triad

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



22.8938, 10.0364, 80.8513



14.8578, 10.0364, 0.0000



1.2066, 10.0364, 21.8266

Complementary

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



22.8938, 10.0364, 80.8513



37.7548, 64.4198, 10.4444

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.



1.3169, 10.0364, 2.3851



22.8938, 10.0364, 80.8513



6.8677, 10.0364, 0.0000

Square

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



22.8938, 10.0364, 80.8513



25.0388, 10.0364, 0.0000



2.7568, 10.0364, 0.0000



2.2798, 10.0364, 68.8711

Rectangle

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



22.8938, 10.0364, 80.8513



32.7437, 10.0364, 9.6920



2.7568, 10.0364, 0.0000



1.1328, 10.0364, 12.2647

Sweetspot

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



22.8946, 10.0368, 80.8516



62.6595, 53.9985, 101.7280



21.8236, 19.1894, 82.6747



12.6351, 10.5018, 21.6111



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.



22.8946, 10.0368, 80.8516



26.9586, 11.8126, 95.4669



50.2113, 24.1190, 82.1300



14.9520, 14.9205, 19.0141



12.6512, 5.5579, 44.1489



1.1044, 0.4936, 3.4719

Inverse Universe

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



38.1949, 19.3125, 18.8526



45.0679, 22.7912, 22.0876



30.2843, 60.5686, 10.0948



15.3782, 15.1791, 17.2769



20.9192, 10.5704, 10.6417



1.6912, 0.8494, 1.0913

Previews

White Background



This preview shows how the XYZ color 22.8938, 10.0364, 80.8513 looks on a white background.

Color Contrast Check

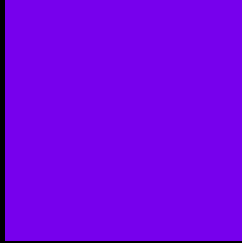
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



This preview shows how the XYZ color 22.8938, 10.0364, 80.8513 looks on a black 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

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

XYZ 22.8938, 10.0364, 80.8513

Background



This preview shows how black text looks on a background with the XYZ color 22.8938, 10.0364, 80.8513.



This preview shows how white text looks on a background with the XYZ color 22.8938, 10.0364,

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

22.8938, 10.0364, 80.8513

Protanopia

12.1415, 10.4401, 46.7226

Deuteranopia

10.0002, 10.2630, 33.3522



Tritanopia

9.5207, 10.3237, 13.5475

Trichromacy



Original Color

22.8938, 10.0364, 80.8513



Protanomaly

13.1899, 7.6537, 57.2820



Deuteranomaly

11.4232, 7.1867, 47.2395



Tritanomaly

11.7883, 7.7628, 29.7312

Monochromacy



Original Color

22.8938, 10.0364, 80.8513



Achromatopsia

4.7246, 4.9707, 5.4130



Achromatomaly

8.0920, 4.8629, 20.2508

CSS Examples

Text

The CSS property to change the color of the text to XYZ 22.8938, 10.0364, 80.8513 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(119, 0, 237)` looks like.

```
.text, #text, p{  
    color:rgb(119, 0, 237)  
}
```

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(119, 0, 237) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(119, 0, 237) }
```

Border

The CSS property to change the border of an element to XYZ 22.8938, 10.0364, 80.8513 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(119, 0, 237) }
```


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

```
.border{ border-color:rgb(119, 0, 237) }
```

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

Here you see how a box with a 4 pixel rgb(119, 0, 237) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(119, 0, 237); -webkit-box-  
shadow:4px 4px 4px 4px rgb(119, 0, 237);  
box-shadow:4px 4px 4px 4px rgb(119, 0,  
237) }
```

Background

The CSS property to change the background color of an element to XYZ 22.8938, 10.0364, 80.8513 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(119, 0, 237) }
```

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

```
.background{ background-color: rgb(119, 0,  
237) }
```

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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