

Converting Colors

XYZ(22.2335, 12.4742, 68.4747)

Have a look what the booklet for
XYZ(22.2335, 12.4742, 68.4747)
contains.

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Color

**XYZ(22.2007, 12.4450,
68.2499)**

Conversions

Conversions Part 1

Format	Color
Hex	783DDB
RGB	120, 61, 219
RGB Percent	47%, 24%, 86%
CMY	0.5294, 0.7608, 0.1412
CMYK	0.45, 0.72, 0.00, 0.14
HSL	262°, 69%, 55%
HSV	262°, 72%, 86%
XYZ	22.2007, 12.4450, 68.2499
YIQ	96.6530, -15.5540, 61.6460

Conversions

Conversions Part 2

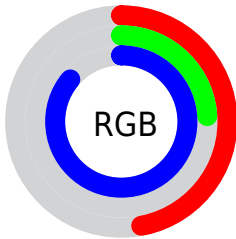
Format	Color
R _{YB}	120, 61, 219
Decimal	7880155
CIE Lab	41.91, 58.29, -71.31
CIE LCh	42, 92.104, 309.265
Yxy	12.4450, 0.2158, 0.1209
Android (android.graphics.Color)	4286070235 (0xFF783DDB)
YUV	96.6530, 60.3171, 20.4753
Hunter-Lab	35.2775, 50.5974, -90.0117

Details

The XYZ color **22.2007, 12.4450, 68.2499** is a dark color, and the websafe version is hex **6633CC**. The color can be described as dark muted purple. A complement of this color would be **40.6702, 58.4733, 13.5577**, and the grayscale version is **11.1378, 11.7178, 12.7607**.

A 20% lighter version of the original color is **42.5455, 28.6140, 97.8884**, and **8.3558, 3.5439, 34.8940** is the 20% darker color. If you saturate the color by 10%, you get **19.4926, 9.6536, 67.8541**, and if you desaturate by 10%, it is **25.6598, 16.3315, 68.8181**.

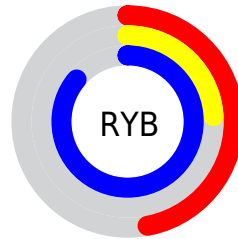
Distribution



Red (47%)

Green (24%)

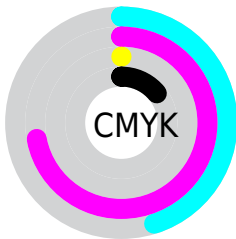
Blue (86%)



Red (47%)

Yellow (24%)

Blue (86%)

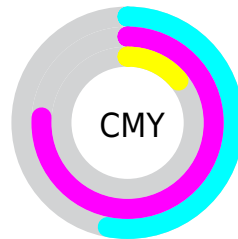


Cyan (45%)

Magenta (72%)

Yellow (0%)

Black (14%)



Cyan (53%)

Magenta (76%)

Yellow (14%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 22.2007, 12.4450, 68.2499 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 22.2007, 12.4450, 68.2499 by changing the saturation by 10% instead.

■ 22.2007, 12.4450,
68.2499

■ 22.2007, 12.4450,
68.2499

256.2053,
207.3295, 473.0030

■ 14.1219, 7.0475,
49.6331

■ 46.5539, 30.3030,
118.3672

■ 8.2877, 3.4918,
34.7528

■ 63.5589, 43.5324,
150.7047

■ 4.3330, 1.3936,
23.1905

■ 84.2701, 60.1411,
188.4529

■ 1.8922, 0.2120,
14.5276

■ 109.0528, 80.5136,
232.0304

■ 0.5723, 0.0000,
8.3456

■ 138.2723,
105.0343, 281.8556

■ 0.0000, 0.0000,
4.2260

172.2939,

■ 0.0000, 0.0000,

134.0876, 338.3470

1.7501

211.4832,
168.0578, 401.9233

■ 0.0000, 0.0000,
0.3947

■ 0.0000, 0.0000,
0.0000

■ 22.2007, 12.4450,
68.2499

■ 22.2007, 12.4450,
68.2499

■ 19.4926, 9.6536,
67.8541

■ 25.6598, 16.3315,
68.8181

■ 17.4598, 7.8260,
67.6085

■ 29.9305, 21.4214,
69.5754

■ 16.2473, 6.8987,
67.4934

■ 35.0690, 27.8105,
70.5378

■ 41.1252, 35.5843,
71.7191

■ 48.1451, 44.8210,
73.1320

■ 56.1714, 55.5928,
74.7881

■ 65.2441, 67.9669,
76.6984

■ 75.4009, 82.0067,
78.8730

■ 85.6806, 95.7780,
80.9893

Harmonies

Analogous

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



14.0641, 12.4450, 94.4724



22.2007, 12.4450, 68.2499



28.7845, 12.4450, 31.6340

Triad

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



22.2007, 12.4450, 68.2499



17.0961, 12.4450, 0.0000



3.0409, 12.4450, 20.5280

Complementary

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



22.2007, 12.4450, 68.2499



40.6702, 58.4733, 13.5577

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.



3.3231, 12.4450, 4.1382



22.2007, 12.4450, 68.2499



9.8435, 12.4450, 0.0000

Square

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



22.2007, 12.4450, 68.2499



25.1369, 12.4450, 0.9770



5.3265, 12.4450, 0.0669



4.3117, 12.4450, 53.8327

Rectangle

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



22.2007, 12.4450, 68.2499



30.3442, 12.4450, 14.0375



5.3265, 12.4450, 0.0669



2.9728, 12.4450, 13.0749

Sweetspot

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



22.2014, 12.4454, 68.2502



67.9204, 63.2132, 103.2293



27.4672, 31.6197, 71.6737



13.9283, 12.7223, 21.9715



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.



22.2014, 12.4454, 68.2502



25.8005, 12.0290, 95.5697



37.7262, 20.4487, 68.9768



12.7958, 12.8529, 16.4586



9.7455, 4.1482, 40.0254



0.7249, 0.3169, 2.5974

Inverse Universe

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



37.2270, 20.9355, 35.3343



49.2489, 25.3404, 41.4009



29.6594, 52.7970, 13.0425



13.3974, 13.1881, 15.3541



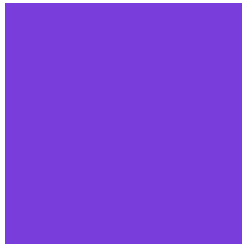
20.0634, 10.0264, 15.2455



1.3410, 0.6660, 1.2047

Previews

White Background



This preview shows how the XYZ color 22.2007, 12.4450, 68.2499 looks on a white background.

Color Contrast Check

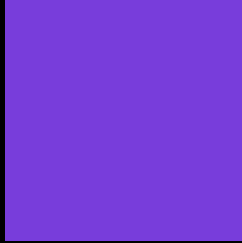
Large Text (above 18pt) WCAG AA ✓ Pass

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 22.2007, 12.4450, 68.2499 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

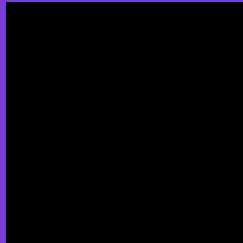
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 22.2007, 12.4450, 68.2499

Background



This preview shows how black text looks on a background with the XYZ color 22.2007, 12.4450, 68.2499.



This preview shows how white text looks on a background with the XYZ color 22.2007, 12.4450,

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

22.2007, 12.4450, 68.2499

Protanopia

14.6348, 12.4015, 56.8807

Deuteranopia

12.2937, 12.3634, 41.7828



Tritanopia

11.6776, 12.4724, 15.9793

Trichromacy



Original Color

22.2007, 12.4450, 68.2499

Protanomaly

15.5171, 11.2761, 61.0332

Deuteranomaly

13.6608, 10.9088, 50.1008

Tritanomaly

14.1526, 11.6185, 29.5136

Monochromacy



Original Color

22.2007, 12.4450, 68.2499

Achromatopsia

11.3621, 11.9538, 13.0177

Achromatomaly

13.8037, 11.2670, 26.6465

CSS Examples

Text

The CSS property to change the color of the text to XYZ 22.2007, 12.4450, 68.2499 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(120, 61, 219)` looks like.

```
.text, #text, p{  
    color:rgb(120, 61, 219)  
}
```

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(120, 61, 219) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 61, 219) }
```

Border

The CSS property to change the border of an element to XYZ 22.2007, 12.4450, 68.2499 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(120, 61, 219) }
```


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

```
.border{ border-color:rgb(120, 61, 219) }
```

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

Here you see how a box with a 4 pixel `rgb(120, 61, 219)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(120, 61, 219); -webkit-box-  
shadow:4px 4px 4px 4px rgb(120, 61, 219);  
box-shadow:4px 4px 4px 4px rgb(120, 61,  
219) }
```

Background

The CSS property to change the background color of an element to XYZ 22.2007, 12.4450, 68.2499 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(120, 61, 219) }
```

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

```
.background{ background-color: rgb(120, 61,  
219) }
```

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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