

Converting Colors

XYZ(20.9011, 12.6956, 61.6414)

Have a look what the booklet for
XYZ(20.9011, 12.6956, 61.6414)
contains.

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Color

**XYZ(20.9012, 12.6968,
61.6707)**

Conversions

Conversions Part 1

Format	Color
Hex	7446D1
RGB	116, 70, 209
RGB Percent	45%, 27%, 82%
CMY	0.5451, 0.7255, 0.1804
CMYK	0.44, 0.67, 0.00, 0.18
HSL	260°, 60%, 55%
HSV	260°, 67%, 82%
XYZ	20.9012, 12.6968, 61.6707
YIQ	99.6000, -17.2030, 52.9810

Conversions

Conversions Part 2

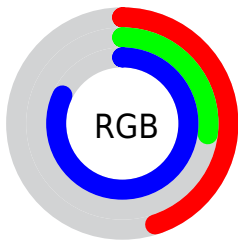
Format	Color
R_{YB}	116, 70, 209
Decimal	7620305
CIE _{Lab}	42.30, 50.49, -64.95
CIE _{LCh}	42, 82.271, 307.859
Yxy	12.6968, 0.2194, 0.1333
Android (android.graphics.Color)	4285810385 (0xFF7446D1)
YUV	99.6000, 53.9342, 14.3828
Hunter-Lab	35.6326, 42.3468, -77.6728

Details

The XYZ color **20.9012, 12.6968, 61.6707** is a dark color, and the websafe version is hex **6633CC**. The color can be described as middle muted purple. A complement of this color would be **39.0100, 53.8297, 14.1287**, and the grayscale version is **11.8827, 12.5015, 13.6142**.

A 20% lighter version of the original color is **42.3429, 29.8934, 98.1460**, and **7.6135, 3.6064, 30.4318** is the 20% darker color. If you saturate the color by 10%, you get **18.0930, 9.6345, 61.2279**, and if you desaturate by 10%, it is **24.4452, 16.8135, 62.2788**.

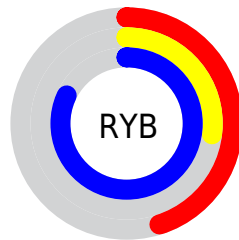
Distribution



Red (45%)

Green (27%)

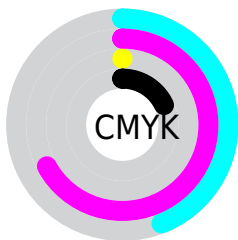
Blue (82%)



Red (45%)

Yellow (27%)

Blue (82%)

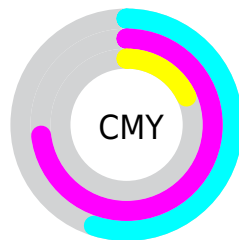


Cyan (44%)

Magenta (67%)

Yellow (0%)

Black (18%)



Cyan (55%)

Magenta (73%)

Yellow (18%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 20.9012, 12.6968, 61.6707 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 20.9012, 12.6968, 61.6707 by changing the saturation by 10% instead.

■ 20.9012, 12.6968,
61.6707

■ 20.9012, 12.6968,
61.6707

249.4946,
208.9653, 448.7033

■ 13.1639, 7.2201,
44.3326

■ 44.4156, 30.7580,
108.8164

■ 7.6192, 3.6001,
30.5930

■ 60.9233, 44.1113,
139.4611

■ 3.9020, 1.4525,
20.0332

■ 81.0852, 60.8588,
175.3785

■ 1.6469, 0.2549,
12.2349

■ 105.2666, 81.3851,
216.9870

■ 0.4227, 0.0000,
6.7794

■ 133.8329,
106.0745, 264.7052

■ 0.0000, 0.0000,
3.2482

167.1494,

■ 0.0000, 0.0000,

135.3114, 318.9516

1.2227

205.5816,
169.4802, 380.1448

■ 0.0000, 0.0000,
0.0000

■ 20.9012, 12.6968,
61.6707

■ 20.9012, 12.6968,
61.6707

■ 18.0930, 9.6345,
61.2279

■ 24.4452, 16.8135,
62.2788

■ 15.9568, 7.5201,
60.9324

■ 28.7773, 22.0746,
63.0660

■ 14.4161, 6.2200,
60.7626

■ 33.9466, 28.5612,
64.0456

■ 13.9750, 5.8749,
60.7193

■ 39.9978, 36.3467,
65.2294

■ 46.9718, 45.4987,
66.6283

■ 54.9071, 56.0797,
68.2524

■ 63.8399, 68.1487,
70.1112

■ 73.8044, 81.7611,
72.2134

■ 83.8356, 94.9744,
74.2352

Harmonies

Analogous

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



13.7622, 12.6968, 82.0780



20.9012, 12.6968, 61.6707



26.7115, 12.6968, 30.9692

Triad

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



20.9012, 12.6968, 61.6707



17.1086, 12.6968, 0.0000



3.7230, 12.6968, 19.0049

Complementary

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



20.9012, 12.6968, 61.6707



39.0100, 53.8297, 14.1287

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.



4.0822, 12.6968, 4.5721



20.9012, 12.6968, 61.6707



10.5187, 12.6968, 0.0000

Square

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



20.9012, 12.6968, 61.6707



24.0525, 12.6968, 1.7044



6.1576, 12.6968, 0.5580



4.9206, 12.6968, 46.8724

Rectangle

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



20.9012, 12.6968, 61.6707



28.2090, 12.6968, 15.1318



6.1576, 12.6968, 0.5580



3.6762, 12.6968, 12.5950

Sweetspot

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



20.9018, 12.6972, 61.6710



69.4247, 65.7588, 103.6414



27.4868, 32.8101, 65.2062



14.1956, 13.2038, 22.0503



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.



20.9018, 12.6972, 61.6710



26.7751, 13.4753, 95.7975



33.3506, 19.1148, 62.2536



11.5270, 11.6050, 14.8761



8.7100, 3.6705, 37.4419



0.5702, 0.2481, 2.0974

Inverse Universe

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



35.0955, 20.5801, 36.7720



51.4455, 27.2363, 49.8322



28.6759, 48.5023, 13.6451



12.1375, 11.9397, 13.9999



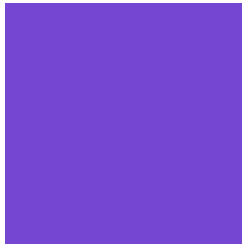
19.1706, 9.5411, 16.3363



1.1078, 0.5478, 1.1024

Previews

White Background



This preview shows how the XYZ color 20.9012, 12.6968, 61.6707 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 20.9012, 12.6968, 61.6707 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 20.9012, 12.6968, 61.6707

Background



This preview shows how black text looks on a background with the XYZ color 20.9012, 12.6968, 61.6707.



This preview shows how white text looks on a background with the XYZ color 20.9012, 12.6968,

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

20.9012, 12.6968, 61.6707

Protanopia

15.0820, 12.7254, 58.7881

Deuteranopia

12.6872, 12.6771, 43.3732



Tritanopia

11.7284, 12.6356, 16.2888

Trichromacy



Original Color

20.9012, 12.6968, 61.6707



Protanomaly

15.5036, 11.7649, 59.8462



Deuteranomaly

13.7963, 11.4787, 49.6326



Tritanomaly

14.0225, 12.0660, 28.3780

Monochromacy



Original Color

20.9012, 12.6968, 61.6707



Achromatopsia

12.1130, 12.7438, 13.8780



Achromatomaly

14.2499, 12.1024, 26.3959

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.9012, 12.6968, 61.6707 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(116, 70, 209)` looks like.

```
.text, #text, p{  
    color:rgb(116, 70, 209)  
}
```

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(116, 70, 209) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(116, 70, 209) }
```

Border

The CSS property to change the border of an element to XYZ 20.9012, 12.6968, 61.6707 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(116, 70, 209) }
```


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

```
.border{ border-color:rgb(116, 70, 209) }
```

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

Here you see how a box with a 4 pixel `rgb(116, 70, 209)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(116, 70, 209); -webkit-box-  
shadow:4px 4px 4px 4px rgb(116, 70, 209);  
box-shadow:4px 4px 4px 4px rgb(116, 70,  
209) }
```

Background

The CSS property to change the background color of an element to XYZ 20.9012, 12.6968, 61.6707 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(116, 70, 209) }
```

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

```
.background{ background-color: rgb(116, 70,  
209) }
```

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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