

Converting Colors

XYZ(23.8011, 11.3652, 41.9876)

Have a look what the booklet for
XYZ(23.8011, 11.3652, 41.9876)
contains.

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Color

**XYZ(23.7728, 11.3501,
42.0121)**

Conversions

Conversions Part 1

Format	Color
Hex	A700B0
RGB	167, 0, 176
RGB Percent	65%, 0%, 69%
CMY	0.3451, 0.9999, 0.3098
CMYK	0.05, 1.00, 0.00, 0.31
HSL	297°, 100%, 35%
HSV	297°, 100%, 69%
XYZ	23.7728, 11.3501, 42.0121
YIQ	69.9970, 43.0360, 90.1400

Conversions

Conversions Part 2

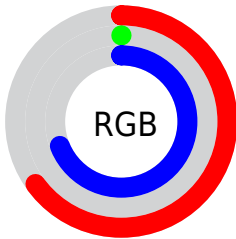
Format	Color
RYB	167, 0, 176
Decimal	10944688
CIELab	40.16, 72.94, -48.77
CIElCh	40, 87.744, 326.234
Yxy	11.3501, 0.3082, 0.1471
Android (android.graphics.Color)	4289134768 (0xFFA700B0)
YUV	69.9970, 52.2595, 85.0716
Hunter-Lab	33.6899, 66.9986, -50.3531

Details

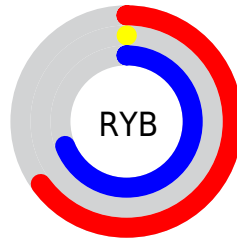
The XYZ color **23.7728, 11.3501, 42.0121** is a dark color, and the websafe version is hex **990099**. A complement of this color would be **15.6384, 31.1090, 5.1809**, and the grayscale version is **5.7339, 6.0325, 6.5694**.

A 20% lighter version of the original color is **49.0998, 28.3356, 79.2254**, and **9.9433, 4.7201, 18.7994** is the 20% darker color. If you saturate the color by 10%, you get **23.7729, 11.3501, 42.0123**, and if you desaturate by 10%, it is **24.1741, 11.8689, 42.0913**.

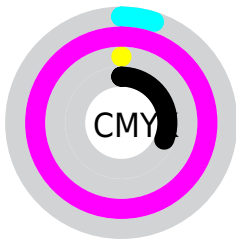
Distribution



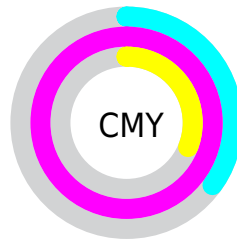
- Red (65%)
- Green (0%)
- Blue (69%)



- Red (65%)
- Yellow (0%)
- Blue (69%)



- Cyan (5%)
- Magenta (100%)
- Yellow (0%)
- Black (31%)





- Cyan (35%)
- Magenta (100%)
- Yellow (31%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 23.7728, 11.3501, 42.0121 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 23.7728, 11.3501, 42.0121 by changing the saturation by 10% instead.


 23.7728, 11.3501,
42.0121


 23.7728, 11.3501,
42.0121


264.1317,
200.0539, 370.3342


 15.2890, 6.3028,
28.7851


 49.1166, 28.3058,
79.4882


 9.1101, 3.0301,
18.6742


 66.7072, 40.9830,
104.5745


 4.8707, 1.1475,
11.2606


 88.0642, 56.9722,
134.4509

 2.2056, 0.0182,
6.1261

 113.5529, 76.6580,
169.5360

 0.7457, 0.0000,
2.8519

 143.5387,
100.4247, 210.2483

 0.0000, 0.0000,
1.0195

 178.3868,

 0.0000, 0.0000,

128.6566, 257.0064

0.0000

218.4627,
161.7383, 310.2289

■ 23.7728, 11.3501,
42.0121

■ 23.7728, 11.3501,
42.0121

■ 23.7729, 11.3501,
42.0123

■ 24.1741, 11.8689,
42.0913

■ 24.7635, 12.7626,
42.2327

■ 25.6144, 14.1771,
42.4609

■ 26.7608, 16.1806,
42.7872

■ 28.2317, 18.8314,
43.2213

■ 30.0527, 22.1803,
43.7717

■ 32.2469, 26.2734,
44.4461

■ 34.8350, 31.1527,
45.2515

■ 37.8368, 36.8570,
46.1943

Harmonies

Analogous

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



16.8483, 11.3501, 73.6205



23.7728, 11.3501, 42.0121



27.2364, 11.3501, 14.6986

Triad

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



23.7728, 11.3501, 42.0121



11.5768, 11.3501, 0.0000



3.3161, 11.3501, 33.9509

Complementary

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



23.7728, 11.3501, 42.0121



15.6384, 31.1090, 5.1809

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.



2.8060, 11.3501, 10.2807



23.7728, 11.3501, 42.0121



6.3891, 11.3501, 0.0000

Square

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



23.7728, 11.3501, 42.0121



18.7091, 11.3501, 0.0000



3.6795, 11.3501, 1.5115



5.4935, 11.3501, 66.6054

Rectangle

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



23.7728, 11.3501, 42.0121



26.4244, 11.3501, 5.1447



3.6795, 11.3501, 1.5115



2.9901, 11.3501, 24.3303

Sweetspot

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



23.7733, 11.3506, 42.0123



58.2541, 47.2181, 80.5390



7.9652, 3.3916, 41.3093



12.2552, 9.5419, 17.3402



84.5950, 89.0005, 96.9216



16.2198, 17.0645, 18.5832

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



23.7733, 11.3506, 42.0123



43.0557, 20.5542, 76.1934



20.1925, 10.1456, 12.8851



8.8063, 8.6242, 10.7068



17.4579, 8.3357, 30.8258



0.5623, 0.2690, 0.9705

Inverse Universe

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



17.9542, 9.2503, 1.0981



32.5376, 16.7663, 1.8607



16.8398, 31.5766, 12.0954



8.5134, 8.5121, 8.9360



13.1797, 6.7895, 0.8405



0.4205, 0.2159, 0.0570

Previews

White Background



This preview shows how the XYZ color 23.7728, 11.3501, 42.0121 looks on a white background.

Color Contrast Check

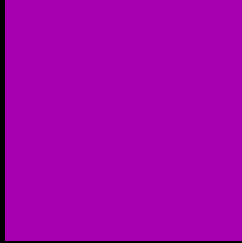
Large Text (above 18pt) WCAG AA ✓ Pass

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 23.7728, 11.3501, 42.0121 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

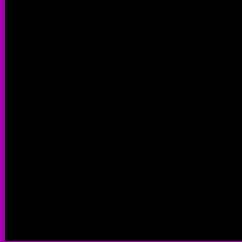
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 23.7728, 11.3501, 42.0121

Background



This preview shows how black text looks on a background with the XYZ color 23.7728, 11.3501, 42.0121.



This preview shows how white text looks on a background with the XYZ color 23.7728, 11.3501,

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

23.7728, 11.3501, 42.0121

Protanopia

14.1957, 12.0826, 55.0101

Deuteranopia

12.3315, 12.0563, 37.2745



Tritanopia

16.8817, 11.7192, 7.8508

Trichromacy



Original Color

23.7728, 11.3501, 42.0121



Protanomaly

12.8346, 7.9415, 49.5716



Deuteranomaly

13.1984, 8.5340, 38.4877



Tritanomaly

18.0680, 10.3200, 16.0786

Monochromacy



Original Color

23.7728, 11.3501, 42.0121



Achromatopsia

5.8214, 6.1246, 6.6697



Achromatomaly

9.5244, 5.9842, 15.1211

CSS Examples

Text

The CSS property to change the color of the text to XYZ 23.7728, 11.3501, 42.0121 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(167, 0, 176)` looks like.

```
.text, #text, p{  
    color:rgb(167, 0, 176)  
}
```

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(167, 0, 176) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(167, 0, 176) }
```

Border

The CSS property to change the border of an element to XYZ 23.7728, 11.3501, 42.0121 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(167, 0, 176) }
```


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

```
.border{ border-color:rgb(167, 0, 176) }
```

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

Here you see how a box with a 4 pixel rgb(167, 0, 176) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(167, 0, 176); -webkit-box-  
shadow:4px 4px 4px 4px rgb(167, 0, 176);  
box-shadow:4px 4px 4px 4px rgb(167, 0,  
176) }
```

Background

The CSS property to change the background color of an element to XYZ 23.7728, 11.3501, 42.0121 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(167, 0, 176) }
```

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

```
.background{ background-color: rgb(167, 0,  
176) }
```

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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