

# Converting Colors

XYZ(18.6871, 11.3194, 14.1048)

Have a look what the booklet for  
XYZ(18.6871, 11.3194, 14.1048)  
contains.

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# Color

**XYZ(18.6676, 11.2990,  
14.0290)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	A23667
RGB	162, 54, 103
RGB Percent	64%, 21%, 40%
CMY	0.3647, 0.7882, 0.5961
CMYK	0.00, 0.67, 0.36, 0.36
HSL	333°, 50%, 42%
HSV	333°, 67%, 64%
XYZ	18.6676, 11.2990, 14.0290
YIQ	91.8780, 48.6390, 38.1350

# Conversions

## Conversions Part 2

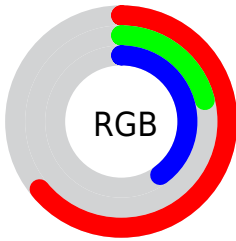
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	162, 54, 103
Decimal	10630759
CIE <sub>Lab</sub>	40.08, 48.92, -4.33
CIE <sub>LCh</sub>	40, 49.107, 354.946
Yxy	11.2990, 0.4243, 0.2568
Android (android.graphics.Color)	4288820839 (0xFFA23667)
YUV	91.8780, 5.4831, 61.4970
Hunter-Lab	33.6140, 40.3059, -1.2153

# Details

The XYZ color **18.6676, 11.2990, 14.0290** is a dark color, and the websafe version is hex **993366**. A complement of this color would be **17.4229, 27.8174, 20.0756**, and the grayscale version is **10.1252, 10.6525, 11.6005**.

A 20% lighter version of the original color is **40.7105, 28.2739, 33.8836**, and **6.6577, 3.3497, 4.0370** is the 20% darker color. If you saturate the color by 10%, you get **17.6143, 9.8661, 11.6010**, and if you desaturate by 10%, it is **20.0197, 13.2541, 16.7889**.

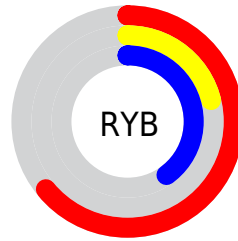
# Distribution



Red (64%)

Green (21%)

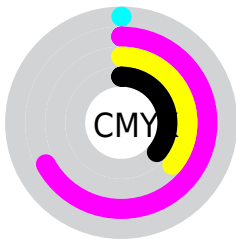
Blue (40%)



Red (64%)

Yellow (21%)

Blue (40%)

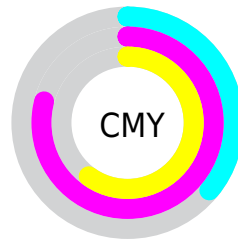


Cyan (0%)

Magenta (67%)

Yellow (36%)

Black (36%)



Cyan (36%)

Magenta (79%)

Yellow (60%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 18.6676, 11.2990, 14.0290 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 18.6676, 11.2990, 14.0290 by changing the saturation by 10% instead.





 18.6676, 11.2990,  
14.0290


 18.6676, 11.2990,  
14.0290


237.5810,  
199.7075, 228.8459


 11.5329, 6.2683,  
8.0019


 40.6929, 28.2118,  
33.8583


 6.4964, 3.0089,  
4.0083


 56.3142, 40.8626,  
48.4976


 3.1927, 1.1364,  
1.6299

 75.4951, 56.8223,  
66.8447

 1.2565, 0.0088,  
0.3120

 98.6010, 76.4753,  
89.3181

 0.1503, 0.0000,  
0.0000

 125.9972,  
100.2059, 116.3364

 0.0000, 0.0000,  
0.0000

 158.0490,

128.3986, 148.3181

195.1218,  
161.4376, 185.6817

■ 18.6676, 11.2990,  
14.0290

■ 18.6676, 11.2990,  
14.0290

■ 17.6143, 9.8661,  
11.6010

■ 20.0197, 13.2541,  
16.7889

■ 16.8313, 8.9009,  
9.4878

■ 21.6935, 15.7752,  
19.8948

■ 16.2791, 8.3268,  
7.6688

■ 23.7107, 18.9035,  
23.3607

■ 16.1193, 8.1690,  
7.1169

■ 26.0907, 22.6757,  
27.1994

■ 28.8515, 27.1257,  
31.4230

■ 32.0096, 32.2849,  
36.0428

■ 35.5809, 38.1829,  
41.0699

■ 39.5800, 44.8475,  
46.5147

■ 44.0211, 52.3049,  
52.3872

# Harmonies

## Analogous

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



17.0379, 11.2990, 26.5149



18.6676, 11.2990, 14.0290



17.8343, 11.2990, 5.9692

# Triad

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



18.6676, 11.2990, 14.0290



8.2086, 11.2990, 1.9318



7.4017, 11.2990, 34.9119

# Complementary

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



18.6676, 11.2990, 14.0290



17.4229, 27.8174, 20.0756

# 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.



5.8308, 11.2990, 22.0233



18.6676, 11.2990, 14.0290



6.2230, 11.2990, 4.3716

# Square

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



18.6676, 11.2990, 14.0290



11.3263, 11.2990, 1.4839



5.4499, 11.2990, 10.7241



10.1730, 11.2990, 42.0147



# Rectangle

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



18.6676, 11.2990, 14.0290



16.0700, 11.2990, 3.2433



5.4499, 11.2990, 10.7241



6.7410, 11.2990, 30.8646

# Sweetspot

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



18.6679, 11.2996, 14.0292



50.4319, 46.0937, 54.1126



14.4727, 8.6664, 35.0923



11.0257, 9.8672, 11.6927



78.6606, 82.7571, 90.1225



14.0027, 14.7319, 16.0430



# Same Dimension

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



18.6679, 11.2996, 14.0292



31.2289, 16.9599, 19.1265



17.0595, 10.9344, 4.7023



7.2011, 7.1369, 8.0455



12.7205, 6.4442, 5.7186



0.2910, 0.1449, 0.2452



# Inverse Universe

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



18.6679, 11.2996, 14.0292



31.2289, 16.9599, 19.1265



20.3384, 27.9835, 38.5117



7.2011, 7.1369, 8.0455



12.7205, 6.4442, 5.7186



0.2910, 0.1449, 0.2452



# Previews

## White Background



This preview shows how the XYZ color 18.6676, 11.2990, 14.0290 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

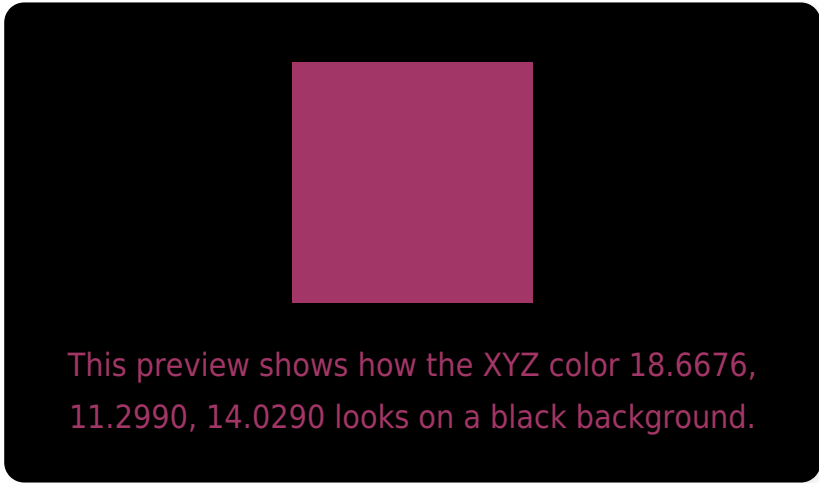
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

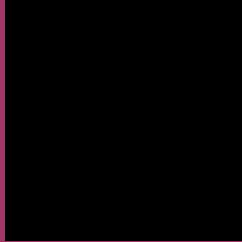
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# XYZ 18.6676, 11.2990, 14.0290

## Background



This preview shows how black text looks on a background with the XYZ color 18.6676, 11.2990, 14.0290.



This preview shows how white text looks on a background with the XYZ color 18.6676, 11.2990,



# 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

18.6676, 11.2990, 14.0290

### Protanopia

11.7115, 11.5217, 22.3755

### Deuteranopia

11.6253, 11.4197, 13.1468



## Tritanopia

17.0887, 11.3312, 6.5967

# Trichromacy



## Original Color

18.6676, 11.2990, 14.0290

## Protanomaly

12.9962, 10.4587, 19.1031

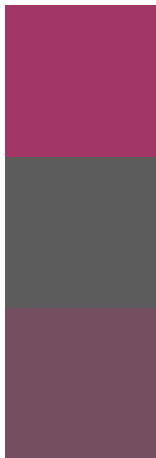
## Deuteranomaly

13.3368, 10.6540, 13.4101

## Tritanomaly

17.5610, 11.2845, 8.8420

# Monochromacy



## Original Color

18.6676, 11.2990, 14.0290

## Achromatopsia

10.1725, 10.7023, 11.6548

## Achromatomaly

12.1718, 10.0752, 12.3695

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 18.6676, 11.2990, 14.0290 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(162, 54, 103)` looks like.

```
.text, #text, p{  
    color:rgb(162, 54, 103)  
}
```

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(162, 54, 103) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(162, 54, 103) }
```

## Border

The CSS property to change the border of an element to XYZ 18.6676, 11.2990, 14.0290 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(162, 54, 103) }
```



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

```
.border{ border-color:rgb(162, 54, 103) }
```

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

Here you see how a box with a 4 pixel rgb(162, 54, 103) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(162, 54, 103); -webkit-box-  
shadow:4px 4px 4px 4px rgb(162, 54, 103);  
box-shadow:4px 4px 4px 4px rgb(162, 54,  
103) }
```

# Background

The CSS property to change the background color of an element to XYZ 18.6676, 11.2990, 14.0290 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(162, 54, 103) }
```

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

```
.background{ background-color: rgb(162, 54,  
103) }
```

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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