

# Converting Colors

XYZ(13.8715, 6.2683, 55.1281)

Have a look what the booklet for  
XYZ(13.8715, 6.2683, 55.1281)  
contains.

<b>XYZ(13.8661, 6.2650, 55.1220)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(13.8661, 6.2650,  
55.1220)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	4F12C8
RGB	79, 18, 200
RGB Percent	31%, 7%, 78%
CMY	0.6902, 0.9294, 0.2157
CMYK	0.60, 0.91, 0.00, 0.22
HSL	260°, 83%, 43%
HSV	260°, 91%, 78%
XYZ	13.8661, 6.2650, 55.1220
YIQ	56.9870, -22.0660, 69.5340

# Conversions

## Conversions Part 2

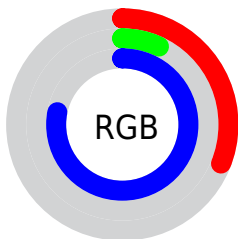
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	79, 18, 200
Decimal	5182152
CIE <sub>Lab</sub>	30.07, 64.63, -79.97
CIE <sub>LCh</sub>	30, 102.818, 308.946
Yxy	6.2650, 0.1843, 0.0833
Android (android.graphics.Color)	4283372232 (0xFF4F12C8)
YUV	56.9870, 70.5054, 19.3054
Hunter-Lab	25.0300, 55.0829, -113.0498

# Details

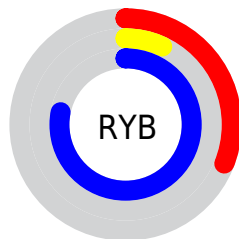
The XYZ color **13.8661, 6.2650, 55.1220** is a dark color, and the websafe version is hex **6600CC**. The color can be described as dark washed blue. A complement of this color would be **31.4088, 46.8402, 7.9576**, and the grayscale version is **3.8000, 3.9979, 4.3537**.

A 20% lighter version of the original color is **32.0316, 18.3674, 96.4648**, and **5.0340, 2.0136, 26.5089** is the 20% darker color. If you saturate the color by 10%, you get **12.7432, 5.3650, 55.0077**, and if you desaturate by 10%, it is **15.5622, 7.8469, 55.3381**.

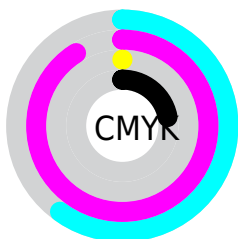
# Distribution



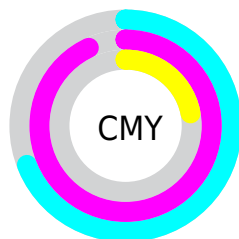
- Red (31%)
- Green (7%)
- Blue (78%)



- Red (31%)
- Yellow (7%)
- Blue (78%)



- Cyan (60%)
- Magenta (91%)
- Yellow (0%)
- Black (22%)



- Cyan (69%)
- Magenta (93%)
- Yellow (22%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 13.8661, 6.2650, 55.1220 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 13.8661, 6.2650, 55.1220 by changing the saturation by 10% instead.



■ 13.8661, 6.2650,  
55.1220

■ 13.8661, 6.2650,  
55.1220

209.9236,  
161.4087, 423.6692

■ 8.1087, 3.0069,  
39.1001

■ 32.4395, 18.4785,  
99.1926

■ 4.2170, 1.1353,  
26.5292

■ 45.9862, 28.2027,  
128.0785

■ 1.8256, 0.0079,  
16.9907

■ 62.8600, 40.8510,  
162.0894

■ 0.5330, 0.0000,  
10.0659

■ 83.4263, 56.8079,  
201.6440

■ 0.0000, 0.0000,  
5.3365

■ 108.0505, 76.4577,  
247.1607


■ 0.0000, 0.0000,  
2.3839

■ 137.0978,

■ 0.0000, 0.0000,

100.1848, 299.0581


0.7776


 170.9337,  
128.3737, 357.7548


 0.0000, 0.0000,  
0.0000


 13.8661, 6.2650,  
55.1220

 13.8661, 6.2650,  
55.1220


 12.7432, 5.3650,  
55.0077

 15.5622, 7.8469,  
55.3381

 17.8343, 10.2352,  
55.6794

 20.7424, 13.5324,  
56.1625

 24.3377, 17.8251,  
56.8016

 28.6656, 23.1893,  
57.6089

■ 33.7674, 29.6937,  
58.5955

■ 39.6809, 37.4009,  
59.7714

■ 46.4417, 46.3689,  
61.1461

■ 54.0828, 56.6520,  
62.7282

# Harmonies

## Analogous

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



7.5119, 6.2650, 80.7066



13.8661, 6.2650, 55.1220



19.4290, 6.2650, 21.4486

# Triad

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



13.8661, 6.2650, 55.1220



9.9338, 6.2650, 0.0000



0.6848, 6.2650, 11.8254

# Complementary

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



13.8661, 6.2650, 55.1220



31.4088, 46.8402, 7.9576

# 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.



0.8218, 6.2650, 1.0446



13.8661, 6.2650, 55.1220



4.6291, 6.2650, 0.0000

# Square

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



13.8661, 6.2650, 55.1220



16.4336, 6.2650, 0.0000



1.8276, 6.2650, 0.0000



1.2691, 6.2650, 40.6942



# Rectangle

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



13.8661, 6.2650, 55.1220



20.8156, 6.2650, 7.3204



1.8276, 6.2650, 0.0000



0.6547, 6.2650, 6.3458

# Sweetspot

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



13.8666, 6.2651, 55.1222



62.0002, 55.9900, 102.1471



19.9554, 22.8600, 58.0044



12.5447, 11.0442, 21.7205



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.



13.8666, 6.2651, 55.1222



21.8403, 9.1740, 95.2274



27.1470, 13.1114, 55.7437



10.3862, 10.4573, 13.3885



8.1884, 3.4555, 34.9798



0.4650, 0.2035, 1.6599



# Inverse Universe

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



28.6949, 14.5755, 25.7221



48.4501, 24.1441, 39.8980



21.9979, 41.9887, 7.5172



10.9261, 10.7538, 12.5942



17.8782, 8.9009, 15.1006

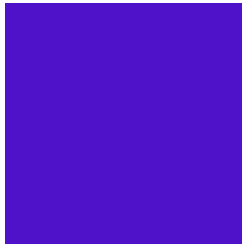


0.8792, 0.4345, 0.8872



# Previews

## White Background



This preview shows how the XYZ color 13.8661, 6.2650, 55.1220 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

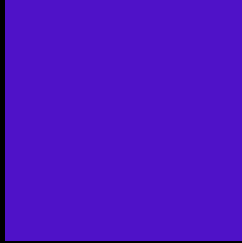
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass



# Black Background



This preview shows how the XYZ color 13.8661, 6.2650, 55.1220 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

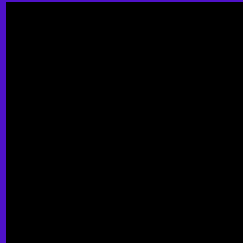
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**XYZ 13.8661, 6.2650, 55.1220**

## **Background**



This preview shows how black text looks on a background with the XYZ color 13.8661, 6.2650, 55.1220.



This preview shows how white text looks on a background with the XYZ color 13.8661, 6.2650,



# 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

13.8661, 6.2650, 55.1220

### Protanopia

7.2390, 6.3006, 27.6227

### Deuteranopia

6.0869, 6.3528, 19.9742



## Tritanopia

4.7242, 6.3966, 9.5800

# Trichromacy



## Original Color

13.8661, 6.2650, 55.1220

## Protanomaly

8.4388, 5.2590, 36.1676

## Deuteranomaly

7.4934, 5.1665, 30.3081

## Tritanomaly

6.2083, 4.9300, 20.7030

# Monochromacy



## Original Color

13.8661, 6.2650, 55.1220

## Achromatopsia

3.8890, 4.0915, 4.4557

## Achromatomaly

5.8042, 3.9557, 14.9256

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 13.8661, 6.2650, 55.1220 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(79, 18, 200)` looks like.

```
.text, #text, p{  
    color:rgb(79, 18, 200)  
}
```

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(79, 18, 200) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(79, 18, 200) }
```

## Border

The CSS property to change the border of an element to XYZ 13.8661, 6.2650, 55.1220 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(79, 18, 200) }
```



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

```
.border{ border-color:rgb(79, 18, 200) }
```

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

Here you see how a box with a 4 pixel `rgb(79, 18, 200)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(79, 18, 200); -webkit-box-  
shadow:4px 4px 4px 4px rgb(79, 18, 200);  
box-shadow:4px 4px 4px 4px rgb(79, 18,  
200) }
```

# Background

The CSS property to change the background color of an element to XYZ 13.8661, 6.2650, 55.1220 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(79, 18, 200) }
```

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

```
.background{ background-color: rgb(79, 18,  
200) }
```

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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