

# Question 2 Labeling Guide

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## Todo

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- background decoration
- custom write-out graph
- element labeling

## Label rule

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The format of label should be:

`a[activity#]-p[persona#]-f[frequency#]-s[stressValue]`

The example would be:

`a1-p1-f4-s0_5`

Since `.` is a special character so `0.5` will be translated into `0_5`

**only circle needs to be labeled**

## Frequency calculation

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The formula is:

$$f = \left(\frac{radius}{82}\right)^2$$

For convenience, all possible values is here:

radius	frequency
0.0	0
82.0	1
115.9655121145938	2
142.02816622064793	3
164.0	4
183.35757415498276	5
200.8581589082206	6
216.95160750729644	7
231.9310242291876	8
246.0	9