Methodology
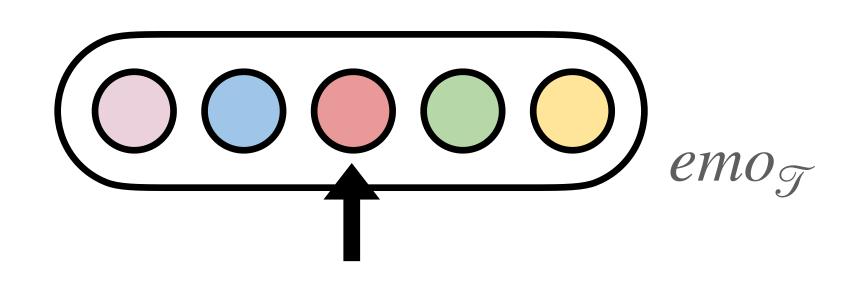## Emotion Intensity ■
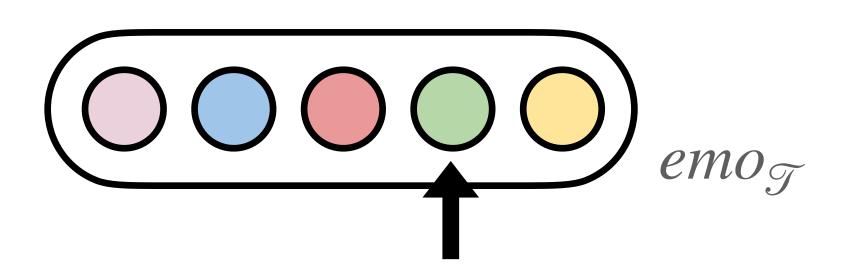

$$s'(\mathcal{T}, e) = \sum_{i=1}^{L} s'\left(t_i, e\right) = \sum_{i=1}^{L} \text{int}\left(t_i\right) \times s\left(t_i, e\right), \quad \forall e \in E$$

- $\text{int}(t_i)$ denotes the intensity score of the word t_i.

- If t_i is in the dictionary, $\text{int}(t_i)$ can be calculated according to emotion dictionary, otherwise $\text{int}(t_i) = 0$

- $emo_{\mathcal{T}}^{int} = s'\left(\mathcal{T}, e_1\right) \oplus s'\left(\mathcal{T}, e_2\right) \oplus \cdots \oplus s'\left(\mathcal{T}, e_{d_e}\right)$

Methodology
Sentiment Score ■

- Also consider the coarse-grained sentiment score of the text.

- Usually, the sentiment score is a positive or negative value, which represents the degree of the positive or negative polarity of the whole text.

- It can be calculated by using sentiment dictionaries or public toolkits.

- Then can get sentiment score feature $emo_{\mathcal{T}}^{senti}$.

$emo_{\mathcal{T}}$