# Impressions2Font: Generating Fonts by Specifying Impressions

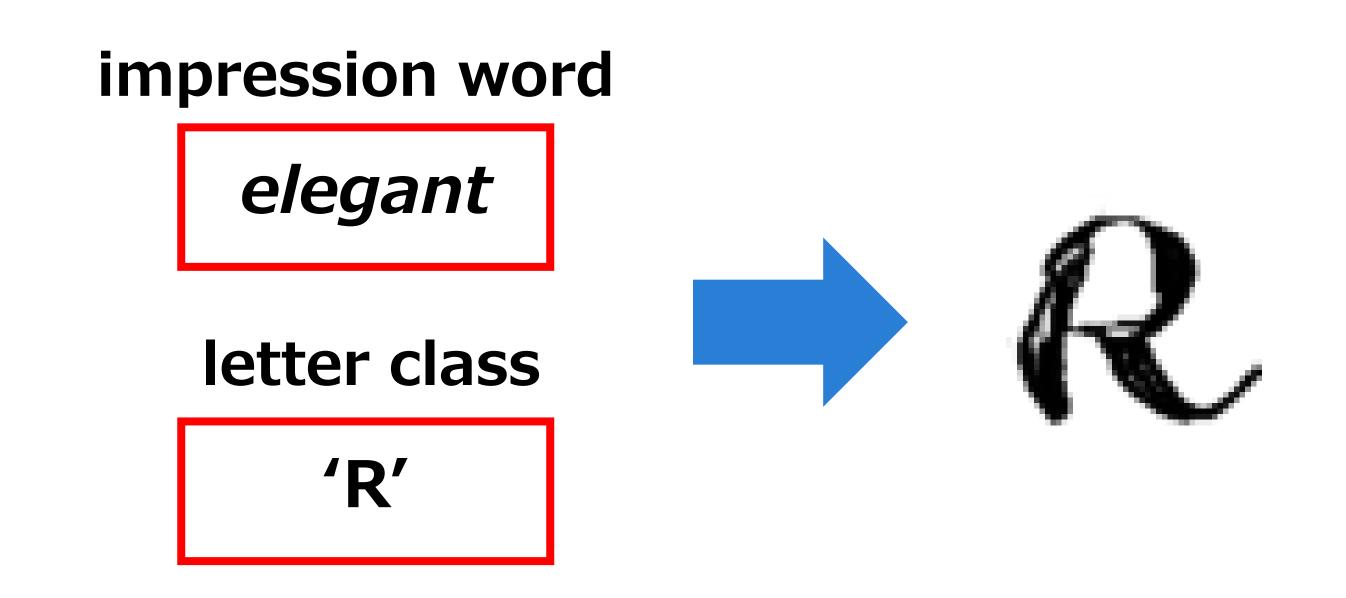
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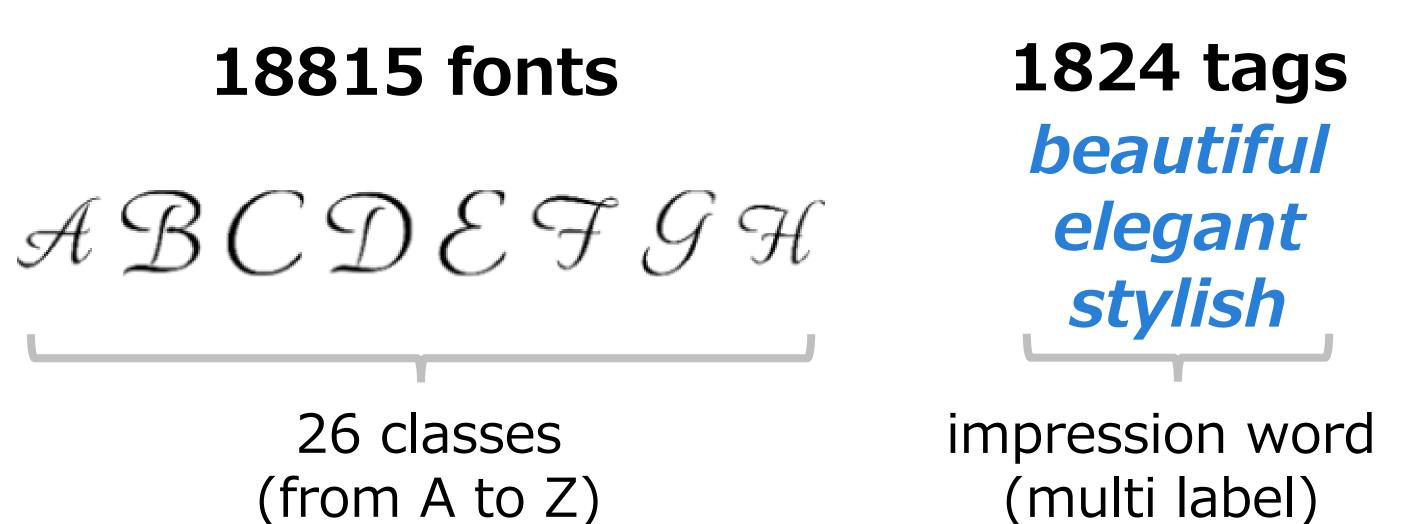
## Purpose

- We propose Impressions2Font, which is constrained GAN model for generating fonts with specific impressions.
- We realize the robustness to inconsistent and rare impression words by a special constraint framework.



# MyFonts dataset[chen++, ICCV2019]

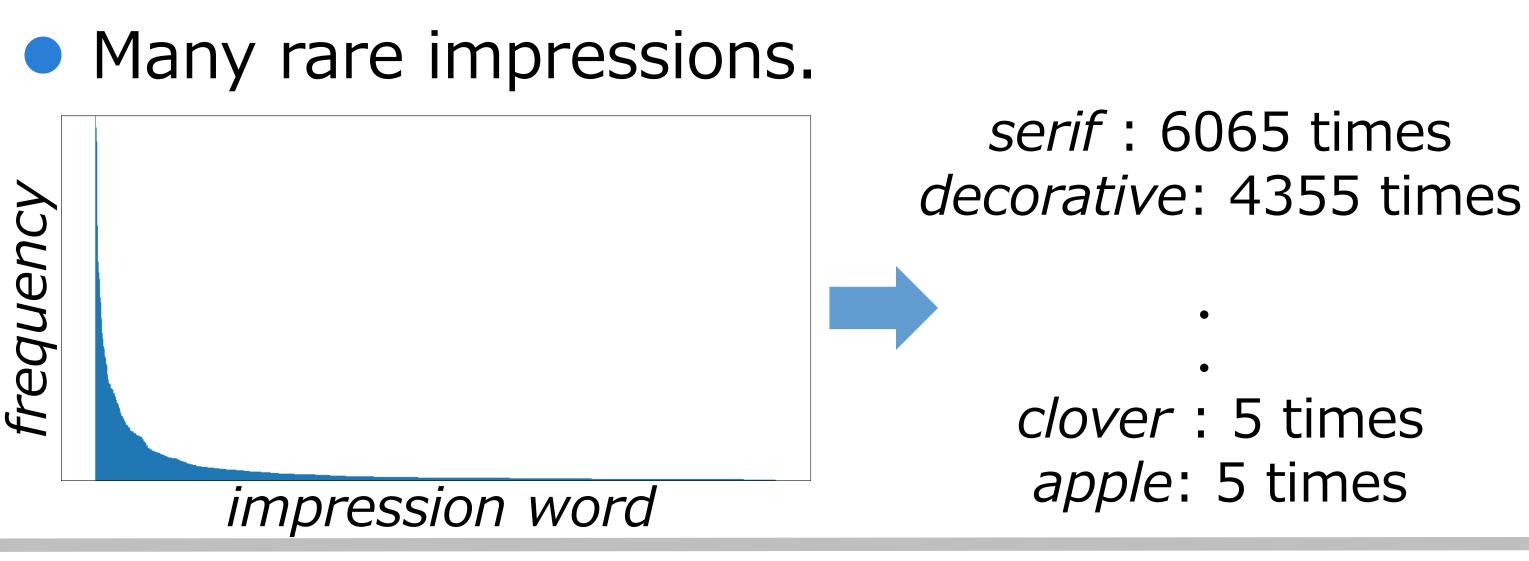
• Impression words are tagged by **experts** as well as amateurs.



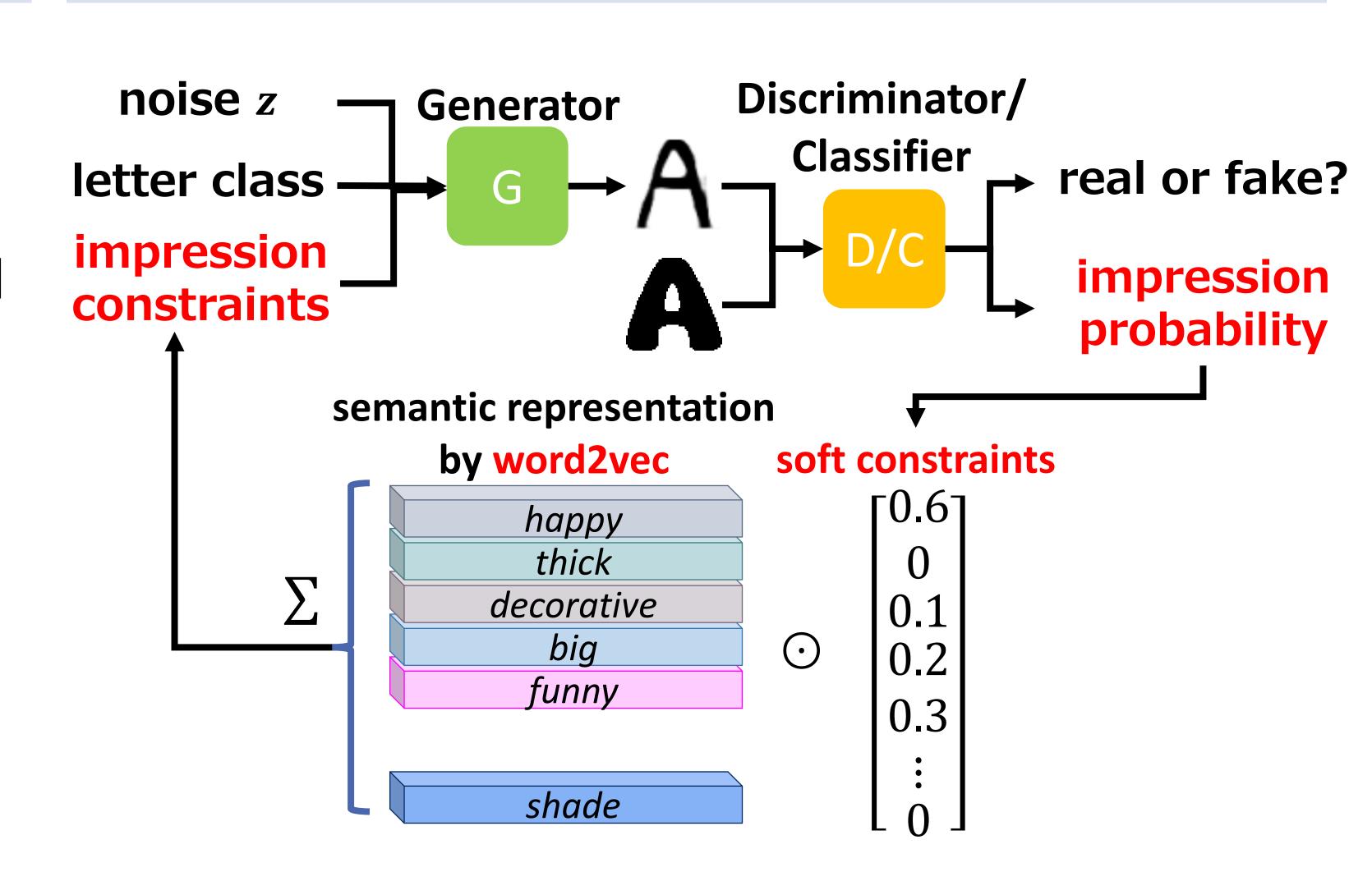
### Difficulties

• Impressions are subjective and thus inconsistent.





## Impressions2Font



#### Why robust??

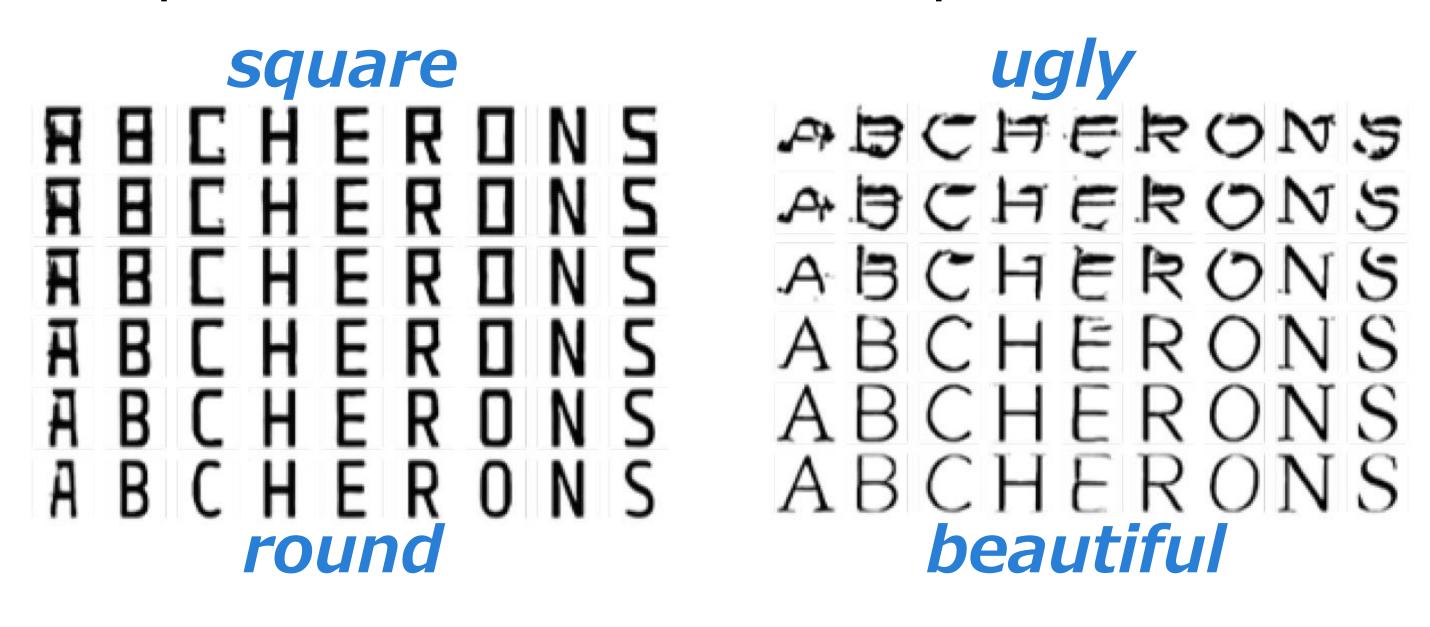
- 1. Soft constraints for inconsistent labels
- 2. Major impressions will support similar rare impressions.

#### Generation results

• Font Generation from specific impression.



• Interpolation between two impressions.



### Future work

- Improving the legibility by introducing new loss functions.
- Dealing with missing labels.
  - $\rightarrow$ Impression X is not attached to the font  $F \neq F$  does not have X.