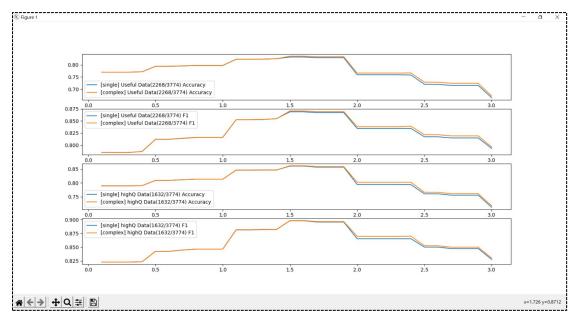
# 2021.07.20~2021.08.04 工作进展

# 1 扩充标准答案,校验数据

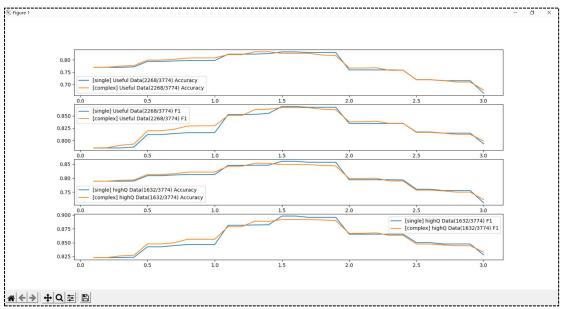
# 2 设计距离度量算法

将单字拼音拆为声母和韵母,分别求编辑距离。尽管汉字拼音之间的距离难以人工加权,但由于声母、韵母数量不多(仅仅是组合 声母\*韵母的组合情况多),可以人工分别维护不同版本的距离权值矩阵,进行测试。

### 2.1 原始拼音 vs 声母、韵母分离



### 2.2 原始拼音 vs 声母、韵母分离(相似拼音按 0.5, 1.5 等比例加权)

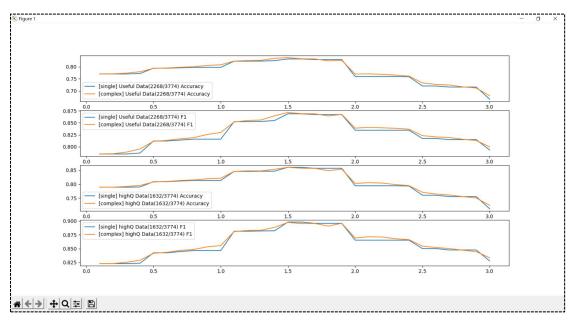


```
complex | Threshold: 1.50 , accuracy: 83.20% |
[single] threshold: 1.40 , accuracy: 83.29% |
[single] threshold: 1.50 , F1: 86.89% |
[complex] threshold: 1.50 , F1: 86.67% |

------HighQ Data Best Performance----------
[single] threshold: 1.50 , accuracy: 86.03% |
[complex] threshold: 1.30 , accuracy: 85.36% |

[single] threshold: 1.50 , F1: 89.79% |
[complex] threshold: 1.50 , F1: 89.18% |
```

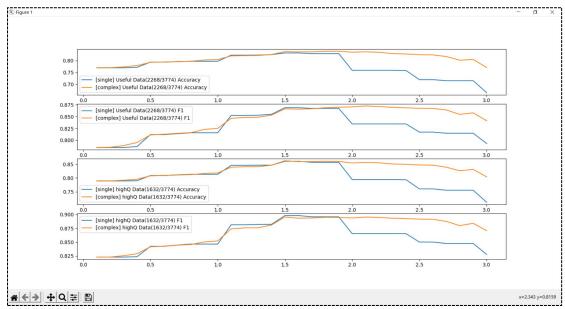
### 2.3 原始拼音 vs 声母、韵母分离(相似拼音按各种比例加权)



```
[single] threshold: 1.50 , accuracy: 83.20% [complex] threshold: 1.50 , accuracy: 83.73% [single] threshold: 1.50 , F1: 86.89% [complex] threshold: 1.50 , F1: 87.17% [single] threshold: 1.50 , F1: 87.17% [single] threshold: 1.50 , accuracy: 86.03% [complex] threshold: 1.50 , accuracy: 86.03% [single] threshold: 1.50 , accuracy: 86.03% [single] threshold: 1.50 , F1: 89.79% [complex] threshold: 1.50 , F1: 89.73%
```

## 3 查阅拼音相似度研究相关论文

当声母和韵母距离都大于0时,添加惩罚机制,即总距离\*1.5



```
[single] threshold: 1.50 , accuracy: 83.20% [complex] threshold: 1.90 , accuracy: 83.95% [single] threshold: 1.50 , F1: 86.89% [complex] threshold: 2.10 , F1: 87.25% [single] threshold: 2.10 , F1: 87.25% [single] threshold: 1.50 , accuracy: 86.03% [complex] threshold: 1.50 , accuracy: 86.21% [single] threshold: 1.50 , F1: 89.79% [complex] threshold: 1.50 , F1: 89.53%
```