

# Project 2: Chinese Discourse Relation Recognition

NATURAL LANGUAGE PROCESSING, NTU CSIE, SPRING 2017

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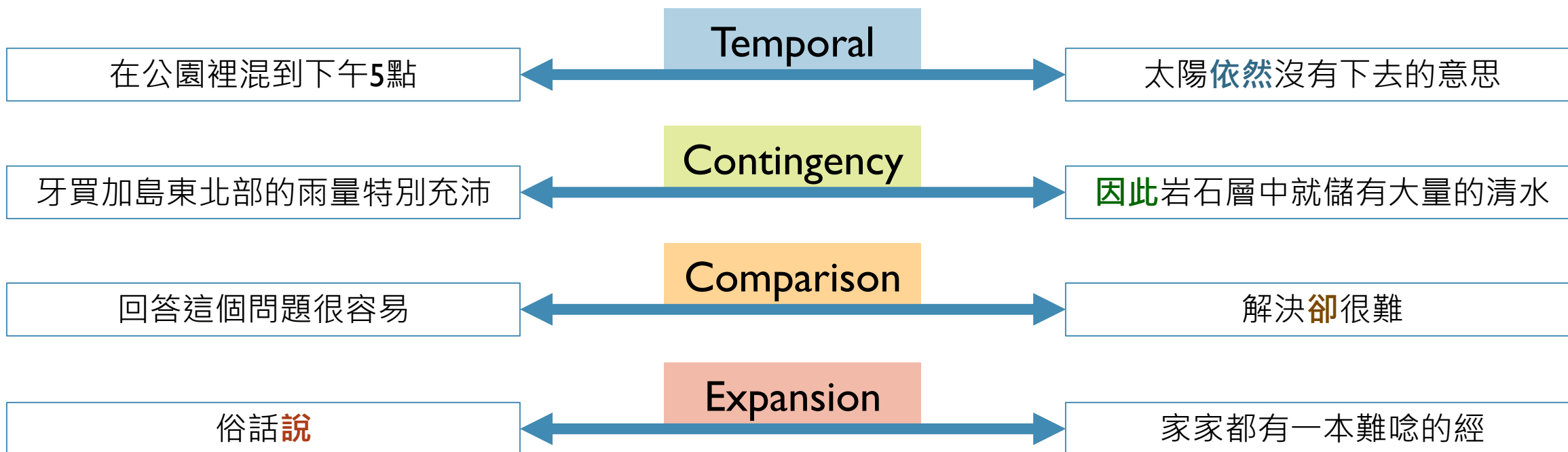
Date	Schedule
2017/05/18 (Thu.)	Project 2 release
2017/06/16 (Fri.)	Kaggle submission due
2017/06/18 (Sun.)	Report submission due
2017/06/22 (Thu.)	Final exam

# OUTLINE

- Task Description
- Data
- Submission & Evaluation
- Grading & Rules
- Report
- Hints

## TASK DESCRIPTION

- Recognize the **discourse relation** between a pair of clauses in a Chinese sentence



# DATA

- List of data files

1. `train.csv`: training pairs of clauses with discourse relation label
2. `test.csv`: test pairs of clauses
3. `sample_submission.csv`

# DATA

- **train.csv**

- 6,638 training instances
- CSV columns

1. **Id**

2. **Clause1**

3. **Clause2**

4. **Relation**

```
Id,Clause1,Clause2,Relation
```

```
...
```

```
206,臺灣官方近來意識到都會公園的重要性,也積極擴展公園綠地的範圍。 ,Contingency
```

```
207,可以說,艙外服就是一個穿在身上的小型飛船。 ,Expansion
```

```
...
```

- **Relation** is one of {Temporal, Contingency, Comparison, Expansion}

# DATA

## ■ `test.csv`

- 1,000 test instances (questions)
- Format: same as `train.csv` but without the **Relation** column

- In your submission, use the **Id** column to specify which question you are answering

## ■ `sample_submission.csv`

- CSV Columns:
  1. **Id**: question id in `test.csv`
  2. **Relation**: the most suitable discourse relation between the pair of clauses

```
Id,Clause1,Clause2
```

```
...
```

```
6659, 為此, 特向您表示衷心的感謝。
```

```
6660, 不僅燈光更為醒目, 行車安全也得到了提高。
```

```
...
```

```
Id,Relation
```

```
...
```

```
6659,Unknown
```

```
6660,Unknown
```

```
...
```

- You must replace the “Unknown” in the **Relation** column with your answers!

# SUBMISSION & EVALUATION

- Submit your answers to the Kaggle platform
  - Join link: <https://kaggle.com/join/ntunlp2017project2>
    - Email to TA if you have problem joining the competition
  - A group may submit a maximum of 5 entries per day / select up to 2 final submissions for grading
  - Deadline: **2017/06/16 (Fri.) 23:59**
- Evaluation: 
$$\text{accuracy} = \frac{\text{\# correctly answered questions}}{\text{\# test questions}}$$
  - Public score (50% test data): will be updated in real time during the project
  - Private score (50% test data): will be announced after the deadline

# GRADING & RULES

## ■ Grading

- Performance: 40%
  - Grade relatively
  - Mainly based on **private** score
- Report: 60%
- Each group will be treated equally **regardless of # members**

## ■ Rules

- You can
  - Use any toolkit/library
  - Use external text corpora
- You **CANNOT**
  - Find the answer somewhere on the web
  - Manually answer the questions
- **Contact the TAs if you are not sure!**



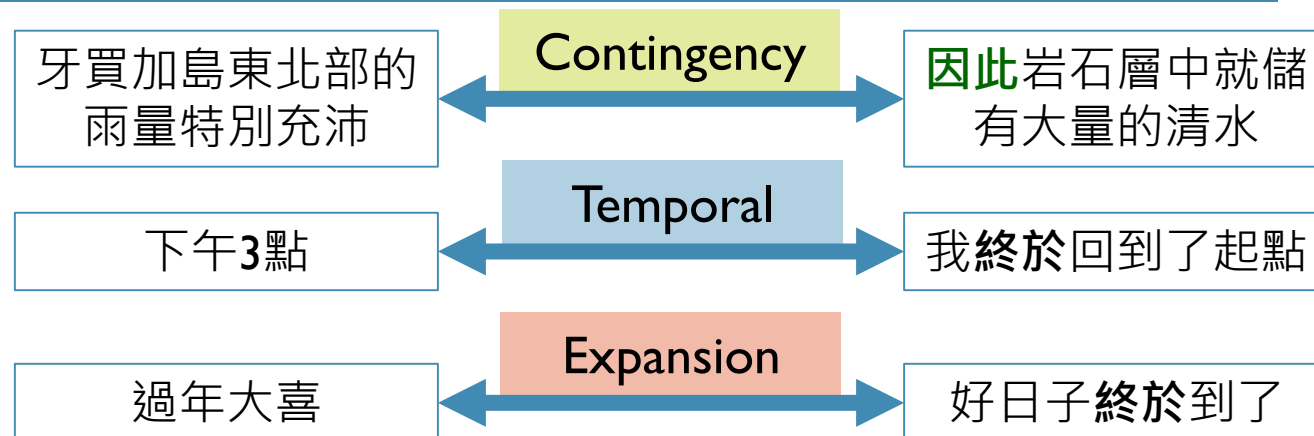
# REPORT

- Report
  - Language: Chinese or English (Be clear in meaning!)
  - Pages: **no more than 6** (with readable font size)
  - Must include:
    - Name and student ID of each group member
    - Kaggle team name & email address for registering Kaggle
    - Agree to share your report in CEIBA 作業觀摩? (Yes/No)
    - Methodology, Experiments, Discussions
  - Deadline: **2017/06/18 (Sun.) 23:59**
    - Upload to CEIBA in **PDF format**, one copy per group

# HINTS

- Discourse markers

- Strong indicator of the discourse relation
- But they can be **ambiguous**!



- Polarity

- Different discourse relations, different tendencies
  - Comparison: positive-negative / negative-positive / ...
  - Expansion: positive-positive / negative-negative / ...
- You can use the resources provided in Project I
- You are encouraged to try other methods (not limited to those taught in class)



QUESTIONS?

