

# ATLAS.ti

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# Agenda

- Introduce ATLAS.ti **data model** and **workflow**
- Start a qualitative research project: **HU & PD**
- Develop concepts: **Coding & Memo**
- Organizing concepts: **Family, Network view, and Query Tool**
- Writing: **Output**

# Today's Goal

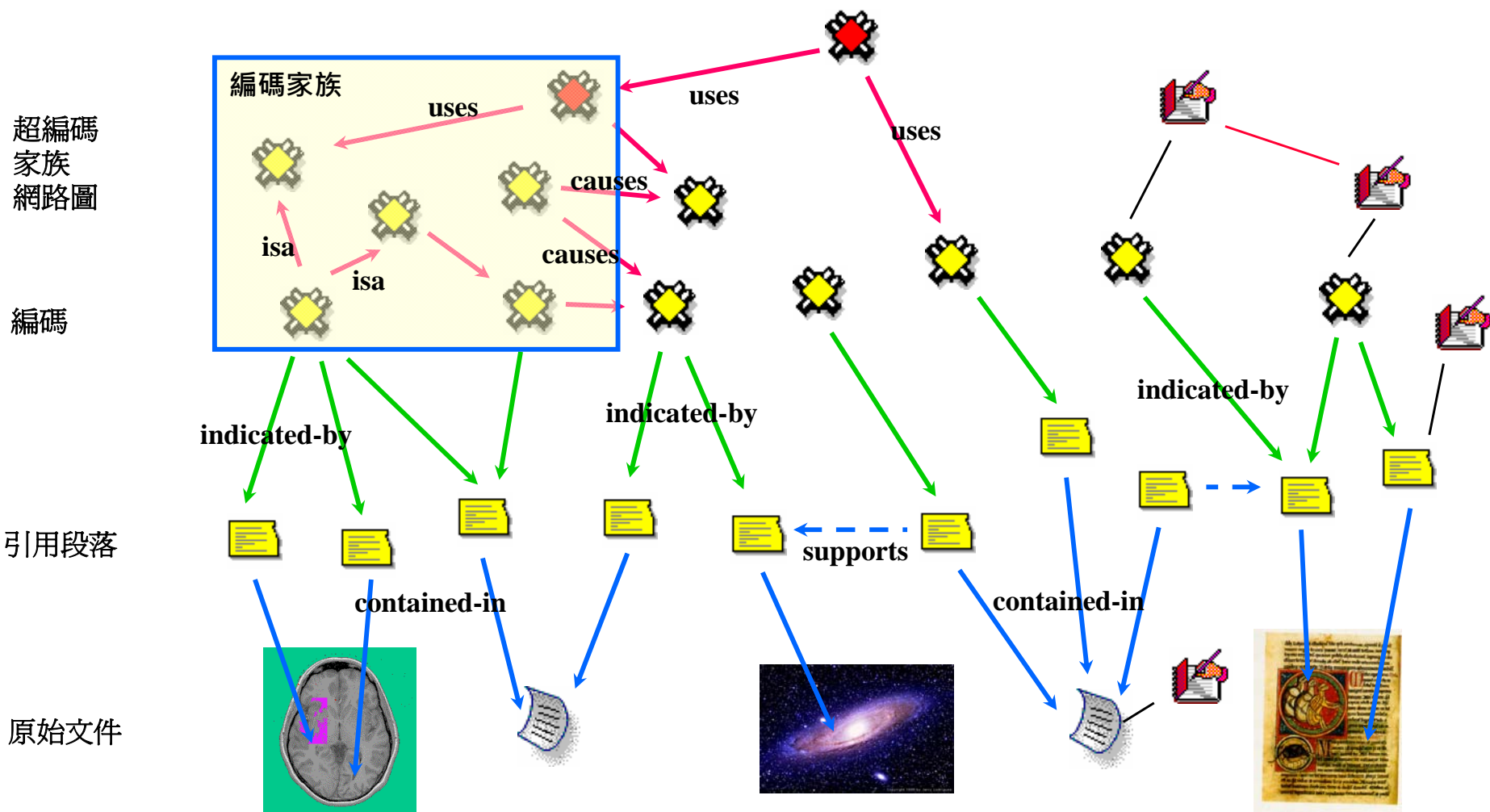
- 今天你們想學到什麼？

# ATLAS.ti

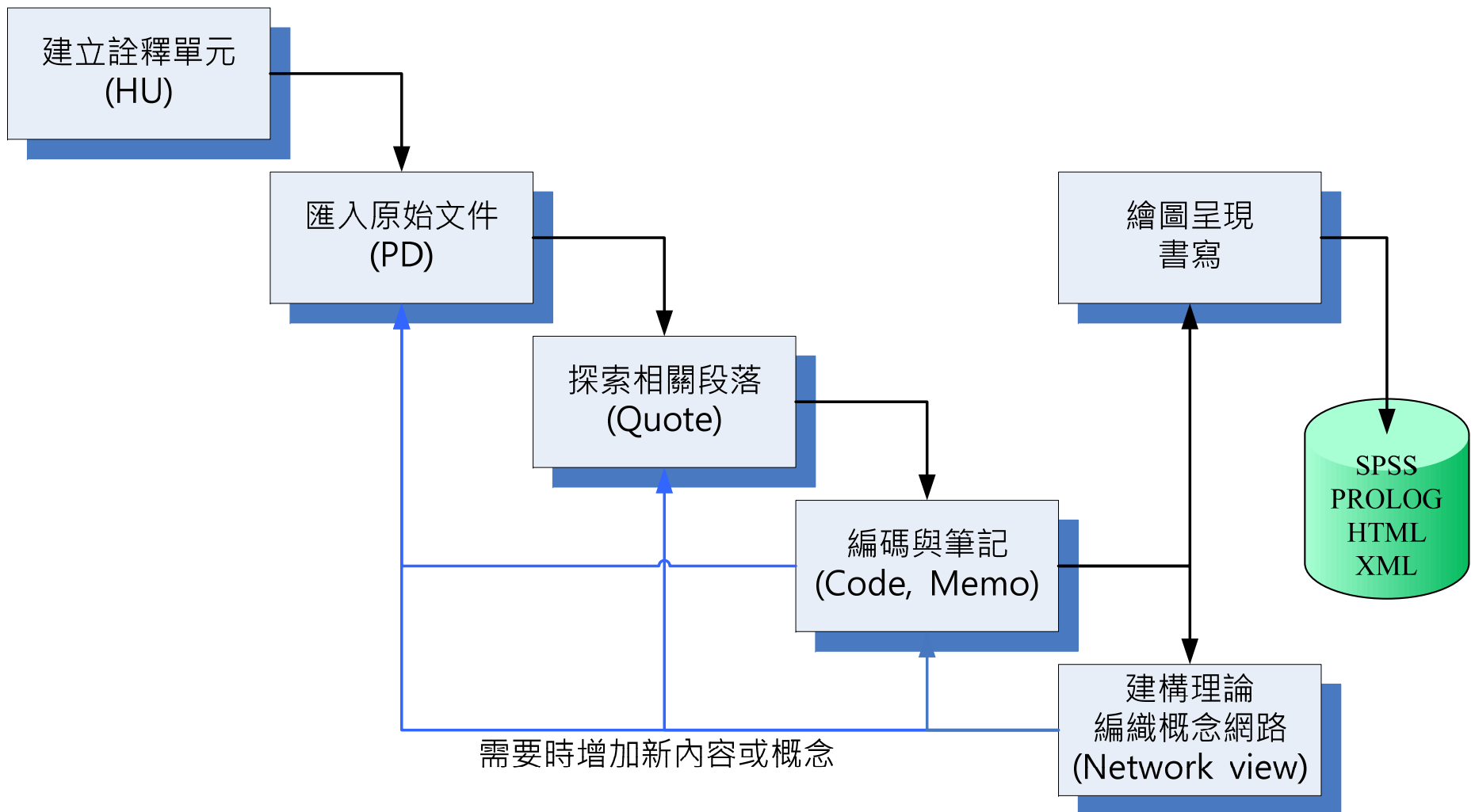
## Data Model

- 詮釋單位 / HU
  - 原始文件 / PD (Primary Document)
  - 引用段落 / Quote
  - 編碼 / Code
  - 筆記 / Memo
  - 家族 / Family
  - 網路圖 / Network view
  - 關係 / Code-Code-Relation | Hyperlink

# 詮釋單元(HU)的結構



# ATLAS.ti workflow



# HU

# 詮釋單元

- ATLAS.ti → 研究專案管理
- 相同的原始文件可以由不同的HU管理 (多重詮釋)
- 不同的HU可以事後合併 (多人協同)

# PD

## 原始文件

- 原始文件：所分析的資料，文本，觀察筆記等
- 媒體類型 | Media types
  - Text: TXT, RTF, DOC, HTML.
  - Image: BMP, TIF, JPG.
  - Multimedia:
    - Audio: WAV, MP3, WMA, SND, etc.
    - Video: AVI, MPG, WMV, MOV, etc.



# PD 管理

- 匯入原始文件 | Assign PD
- 編輯原始文件內容 | Edit PD content  
(only TXT, RTF)
- 原始文件管理員 | PD Manager

# Demo

# HU, PD

[in test.hpr5]

- Create new HU [o1]
- Assign a PD [o2]
- Introduce PD interface [o3]
  - Line number, margin area
- Open PD manager [o4]

# Concept

- 面對豐富的現象 | Fruitful phenomena
- 尋找段落意義 | **Quote:** Meaningful discussion
- 標記概念 | **Code:** Surrogate of concept

# Quote, Code

- 建立自由段落 | Create a free Quote
- 譯碼 | Coding
  - 開放譯碼 | Open coding
  - 由清單譯碼 | Coding by list
  - 見實譯碼 | Coding in vivo
  - 拖曳 | Coding by Drag and Drop

# Code Manager

## 編碼管理員

- 紮根度--密度 | grounded-density
- 管理功能 | Functions:
  - 更名 | Rename Code
  - 刪除關係 | Unlink Code from Quote
  - 刪除編碼 | Delete Code
  - 合併 | Merge Code
  - 分割 | Split Code
  - ... etc.

# Demo

# Coding

[in test.hpr5]

- Create a free quote [05]
- Open coding [06]
- Code by list [07]
- Code in vivo [08]
- Code by code manager [09]
  
- Modify quote boundary [10]
- Quote merge [11]
- Coding by drag and drop [12]

# Coding (cont.)

- 自由譯碼 | Create a free code
- 超編碼 | Create a super code (see Query Tool)
- 網路圖 | Coding by Network view (see Network view)
- 自動譯碼 | Auto Coding

Demo

# Coding II

[test.hpr5]

- Create free code (by network view)
- Auto coding <sup>[13]</sup>



# Memo

## 筆記

- 筆記類型 | 3 types of memo
  - 評論筆記 | Commentary
  - 方法筆記 | Method
  - 理論筆記 | Theory
- 可以自己增加筆記類型 | You can add more types

# Make Memo

- 自由筆記 | Free Memo
- 段落筆記 | Memo to Quotes
- 編碼筆記 | Memo to Codes
- 筆記筆記 | Memo to Memos
- 將筆記轉為原始文件 | Use Memo as PD

Demo

# Memo

[test.hpr5]

- Create free Memo [14]
- Attach Memo to Quote [15]
- Use as PD [16]

# Organizing

# 組織概念

- 家族的歸類分析 | by Family
- 網路的情境分析 | by Network view
- 透過檢索發展與檢驗理論假設 | by Query
  - 超編碼 | Super code
  - 超家族 | Super family

# Families

# 家族

- PD Family
- Code Family
- Memo Family

# Code Family

## 編碼家族

- 編碼家族 | Code-Family relationship
  - 以編碼管理員建立 | by Code Manager
    - 歸入家族 | Assign a Code Family
    - 建立新家族 | Create a new Family
  - 以家族管理員建立管理 | by Code Family Manager
  - 以網路圖管理建立管理 | by Network view (NV)

# Demo

# Family

[test.hpr5]

- Assign and Create new family in code manager <sup>[17]</sup>
- Assign codes to family <sup>[18]</sup>
- Manager family in Code family manager <sup>[19]</sup>

# Network view

## 網路圖

- 概念圖 | Define: Concept maps
  - 節點 | Node
  - 語義/邏輯關係 | Semantic/logic relation: code-code relation
  - 預設七種關係 | 7 default relations
  - **<is a>** relation is most important one.



# Create NV

## 建立網路圖

- 關係編輯器 | Network view as relation editor
- 建立網路圖 | Create NV by:
  - 網路圖管理員 | Network View Manager
  - 編碼 | Code
  - 段落 | Quote
  - 筆記 | Memo
  - 原始文件 | PD

# Demo

# NV

[my.hpr5]

- Open a NV
  - by Code <sup>[20]</sup>
  - by NV Manager <sup>[21]</sup>
    - Import code / family / memo <sup>[22]</sup>
    - Create relation <sup>[23]</sup>
  - by Quote (in low density quotes) <sup>[24]</sup>
  - by Quote (in high density quotes) <sup>[25]</sup>
    - Neighbor / co-occurrence <sup>[26]</sup>

# Query Tool

## 探尋工具

- 系統性地找出特定概念脈絡下的紮根段落 | To find quotes in special conceptual context systematically
- 編碼探尋工具 | Code Query tool
  - 布林探尋 | Boolean Query
  - 語義探尋 | Semantic Query
  - 相鄰探尋 | Proximity Query
- 由探尋建立超編碼 | Create Super code by Query

Demo

# Query Tool

[my.hpr5]

- Open Query Tool <sup>[27]</sup>
  - Query by Boolean <sup>[28]</sup>
  - Query by Semantic <sup>[29]</sup>
  - Query by Proximity <sup>[30]</sup>

# Other organizing tools

- 編碼樹 | Code tree
- 編碼林 | Code forest
- 物件瀏覽 | Object Explorer
- 共現瀏覽 | Co-occurrence Explorer
- 物件搜尋 | Object Crawler
- 字頻統計 | Word Cruncher
- 重複編碼段落分析 | Code analyzer

# Output

## 輸出

- 輸出原始文件相關資料 | PD output
- 輸出段落相關資料 | Quote output
- 輸出編碼相關資料 | Code output
- 輸出筆記相關資料 | Memo output
- 輸出網路圖相關資料 | Network view output

# Demo

# Output

[my.hpr5]

- Output from code manager [31]
- Select code, and output to text editor [32]
- Select super code, and output to text editor [33]

Any Questions?