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[illegible] unit [illegible]

- [illegible] [illegible] ——[illegible]
- [illegible] [illegible] ——[illegible] / [illegible] / [illegible] + [illegible] + [illegible]
- [illegible] [illegible] unit [illegible] [illegible] [illegible] "[illegible] → [illegible] " [illegible]

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[illegible] **ground truth [illegible] unit [illegible]** ——[illegible]

```
([illegible])[[illegible]]([illegible], [illegible], ...)
()[[illegible]]([illegible])
```

[illegible] `(M)[[illegible]](B)` [illegible] `(A)[[illegible]](B)` [illegible] ID[illegible] u_a / u_b / ...[illegible] §[illegible]

[illegible] ——`(X)` [illegible] `[P]` [illegible] `—` / `└─` [illegible] ——[illegible] unit [illegible] [illegible] **unit [illegible]** [illegible]

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[illegible] unit [illegible]

[illegible]	[illegible]
(X)	[illegible] node [illegible] (X) [illegible]
[P]	[illegible] unit [illegible] [P] [illegible]
—	[illegible] — [P] — [illegible] [P] — [illegible]
……	[illegible] `subject_mentions` [illegible]

[illegible] / [illegible] [illegible] §[illegible] [illegible] 4 [illegible] `S*` [illegible] ——[illegible] `(X)*` [illegible] `(X)` [illegible] unit [illegible]

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?? 1 — ??????????

□□□ §□ .1–2□□□□□ / □□ / □□ / □□ / □□ / □□□□□□□□□□□□□□□□

□□ / □□□□ □□ node `?_1` / `?_2` □□□ `()[□□□](low)` □

?? 2 — ????

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?? 3 — ?? unit ?

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- □□□□□ family □□□□□□
- □□□□ ≥1 □□□ node□□
- □□□□□
- □□□□ §□ □□□ ——□□□□ / □□□□□□ / □□□□ / □□ □

□□ node `(M)[□](B)` □□□□□□□□□□□□ `MB` □□□□□□□□ `(A)[□□](B)` □□□□□□□□□□□□□□□

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1. □□□□□ **vs** □□ □□□□□ "□□ / □□ / □□ "□□□□□□□□□□□□□□□□□□□□ → □□□□□□□ + □□□□□□□□□□□□□□□□□ → □□□□□□□□ + `[□□]` □

2. □□□□□ □□□□□□ / □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
→ □□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□ **A —** □□□□□□ □□□ "□□□□□□□□□□□□□"□□□□□□□□ `(□□□)[□□]() + [□□](□□) + [□□](□□)` ——□□□□□□□□□□ "□□□□□"□□□□□□□□□ `(□□□□)[□](□) + (□□)[□](□□□□□□) + (□□□)[□□](□□□□□□□□□)`□

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□□□□□□□□□ □□□ `()` □□□□□□□□□□ ID `u_a / u_b` □□□□□□□□□□□□□□□□□□□□□□□□□□ `()` □□□□□□□□□□□□□ unit □□□□□□□□□□ unit ID□□□□□□□ §□ .2–3□□□□□□□□□

?? 4 — ????????????

□□□□□□□ □□ unit □□ U□□□□□□□□□□□□□□□□□□

```
nodes  := ⋃ unit ∈ U {□□, □□, □□, □□□□□□□□}
S*     := ⋃ unit ∈ U {□□}                # □□□ / □□ / □□□□□□ unit □□□
preds  := { (unit, □□□□) }              # □□□□□□□□□□□□□□□
```

□□ node □□□□

- `n ∈ S*` → □□□□ □ `subject_mentions` □□□□□□□□□□□□□
- □□ → □□□□□ □□□ `context_mentions` □□□□
- □□□□□□□□□ `[P]` ——□□□□□□□□□□□□ `[P]` □□□□□□□□□□□□□□□□□□□□

□□ node □□□ node `B` □□□□ `(M)[□](B)` □□□□□□□□□□□□ B □□□□□□□□□□□□□□□□□□□□□□□□□□ M □ S*□ M □□ unit □□□□□

?? 5 — ????

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□□□□ □□□□□□ ——□□□□□□□□□□□□□□ unit □□□ ground truth□□□□□□□

1. [illegible] [illegible] unit [illegible] /[illegible]
2. [illegible] [illegible] "[illegible] "[illegible] unit[illegible] unit [illegible]
3. [illegible] [illegible]

[illegible] vs unit [illegible] [illegible] `[illegible]` / `[illegible]` / `[illegible]` [illegible] unit [illegible] **[illegible] family [illegible]** [illegible] `[illegible]` / `[illegible]` / `[illegible]` [illegible]

[illegible]	**unit [illegible] family [illegible]**
[illegible] / [illegible] / [illegible]	`[illegible]` / `[illegible]`
[illegible] / [illegible] / [illegible]	`[illegible]` / `[illegible]` / `[illegible]`
[illegible] / [illegible] / [illegible]	`[illegible]` / `[illegible]`
[illegible] / [illegible]	[illegible] l [illegible]

[illegible] unit[illegible] / [illegible] unit [illegible] `null` [illegible]

?? 6 — ?????

[illegible] unit `(S)[P](A_1, ..., A_n)` [illegible]

```
(S) ── [P] ── (A_1)
          ── (A_2)
          ...
          ── (A_n)
```

[illegible] `()[mod-P](v)` [illegible] unit [illegible] `[P]` [illegible]

```
(S) ── [P] ── (A)
           └── [mod-P] ── (v)
```

[illegible] —— [illegible] A_i [illegible] ID[illegible] u_a / u_b / ...[illegible] unit [illegible] `[P]` [illegible] `[P]` [illegible] `[P]` [illegible] `[P]` [illegible] unit[illegible]

```
[illegible](S)[[illegible]](u_a, u_b)
[illegible](S) ── [[illegible]] ── [u_a [illegible]] ── ...
                      └── [u_b [illegible]] ── ...
```

[illegible] —— `(M)[[illegible]](B)` [illegible] unit[illegible]

```
(M) ── [[illegible]] ── (B)
```

□□ node □□□□ `MB` □□□ unit □□□□□□□□ `(M)` □□□ ——□□□ M □□□□□□□ M □□□□□□□

□□□ —— `(A)[□□](B)` □□□□ unit □□□□□□ ≡ □□□ `□□` □□□□□ §□ .2□□□□□□□□ `[□□]` □□□□□□ `(X)` □

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2. □□□□□□ = □□□□□ ——□□□□□□□□ spine □□□□□□□□ narrative center□
3. □□□□□□□□□ ——□□□□ "□□ → □□ → □□□ → □□□ "□□□□□□ `[□□□]` / `[□□]` / `[□□]` □□□□□□□
4. □□□□□□□ **ID**——□□ `sN.uM` □□ N □□ u_M □□□□□□□□ `()` □□□□□

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□□□□□□□ §□ □ 6 — □□ 9 □□□□□ → 4 □ 11 □ unit + 11 □□ / □□ + 4 □□□□□□□□□□□□□□□□□ 7 □ 16 □ unit□

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2. □□□□□ □□□□□□□□ unit □□□□ `[P]` □□□ "□□□ '□□ '"□□□□ `[□□]` □□□
3. □□□□□ □□□□□□□ S*□□□□□□□□□□□□□□□□□□□□□□ unit □□□□□□□□□
4. □□□□□□ □□□□□ `[P]` □□□□□ unit □ `[P]` □□□□□□□□□ `(X)` —— □□□□□□□□□□ unit□
5. □□□□□ □□□ unit □□□ unit □□□□□□ "□□□ `[P]` "□□□□□□□□□□ `(X)` □□□

6. □□□□ **ID** □□ □ `u_a / u_b` □□ ID □□□□□□□□□□□□□□□□□□□□□□□□□□□□ unit ID □□□□□□□
7. □□□□□□□ **unit**□□□□ `null`□□□ unit □□□□□□□□□□□□□□□□□□□□□□□□□□□□
8. □□□□ **(□)—[□]—▶(□)**□□□□□□□□□□□□□□□□□□ unit □□□□□□□□□ `(□)`□□ `[□] X` □□□□□□ → □□□□□□□□□□□□□ `(M)[□](B)` □□□□□□□□

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????????

□□□□□□□□ □□ **— unit □□** □ ground truth□□□□ unit □□□□□□

```
# □ 1   spine: u1
(□□□□)[□](□□□)
(□□□□□□□□)[□□□□](□□□□)        # u1
()[□□](□□□□□□□□)
()[□□](□□□)
()[□□](DeepMind)

# □ 2   spine: u3
...
```

□□□ **—** □□□ □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

```
graph:
  nodes:
    - id: □□□□□□□□
      entry: true                  # □□□□□S* □□□
      out_count: 4
    - id: □□□□
      entry: false                 # □□□□□
    ...
  preds:
    - id: u1
      subject: □□□□□□□□
      predicate: □□□□
      args: [□□□□]
      modifiers:
```

```
        □□: □□□□□□□□
        □□: □□□
        □□: DeepMind
    ...
  segments:
    - id: seg-1
      spine: u1                       # □□□ unit□null □□□□□
      branches: [u2, u3, u4, ...]     # □□□□ unit
    ...
```

□□□□□□ ——□□□□□□ unit □□□□□

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? 1 — ??????

□□□ □□□□□□□□□□

unit □□□

```
(□□)[□□](□□□□□)
```

□□□□□ S* = {□□ } → □□□□□□□□□□ → □□□□□□ [□□] □□□□□□

□□□□□

```
            ┈┈┈┈┈┈┈┈┈┈ (□□)
              \
              (□□) — [□□] — (□□□□□)
```

? 2 — ???? + ???

□□□ **DeepMind** □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

unit □□□□□ svo_demo_0_processed.txt □ 1□□

```
(□□□□□)[□](□□)
(□□□□)[□](□□□)
```

```
(想象增强智能体)[具有](想象力)
()[证据](DeepMind)


(想象增强智能体)[需要提升](学习效率)
()[范围](复杂不完美环境)
()[工具](想象力)
()[证据](DeepMind)
```

节点角色: S* = {复杂不完美 , 想象增强 , 想象增强智能体 }

node	角色	理由
复杂不完美	入口	派生声明 `(复杂不完美)[的](环境)` 的主体
想象增强	入口	派生声明 `(想象增强)[的](智能体)` 的主体
想象增强智能体	入口	多次作主体（具有 / 需要提升）
环境	仅论元	仅作论元
智能体	仅论元	仅作论元
想象力	仅论元	论元 + 修饰行值
学习效率	仅论元	仅作论元
复杂不完美环境	仅论元	修饰行值（派生 node 渲染名）
DeepMind	仅论元	修饰行值（证据）

拓扑示意:

```
(复杂不完美) ── [的] ── (环境)


(想象增强) ── [的] ── (智能体)


                                 -------- (外发)
                                 \
   (想象增强智能体) ── [具有] ── (想象力)
                     |          └── [证据] ── (DeepMind)
                     |
                     └── [需要提升] ── (学习效率)
                                   ├── [范围] ── (复杂不完美环境)
                                   ├── [工具] ── (想象力)
                                   └── [证据] ── (DeepMind)
```

[illegible] `┈┈┈` [illegible] `[P] —— (X)`[illegible] unit [illegible] `(X)` [illegible]

? 3 — ?????????

[illegible] **DeepMind** [illegible] **X**[illegible]

unit [illegible] I [illegible] + [illegible] III [illegible]

```
([illegible])[[illegible]]([illegible])                # u_a
([illegible])[[illegible]]([illegible])          # u_b


(X)[[illegible]](u_a, u_b)
()[[illegible]](DeepMind)
```

[illegible] S* = {[illegible] , [illegible] , X} → [illegible] → [illegible]

[illegible] `[P]` [illegible] `[P]` [illegible]

```
([illegible]) ── [[illegible]] ── ([illegible])
                          ↑
                          │ ([illegible])
(X) ── [[illegible]] ────────┤
       │                  ↓
       │     ([illegible]) ── [[illegible]] ── ([illegible])
       └── [[illegible]] ── (DeepMind)
```

[illegible] `[[illegible]]` [illegible] [illegible] **`[P]`** [illegible] u_a / u_b [illegible] `(X)`——
[illegible]

? 4 — ?????????

[illegible] **DeepMind** [illegible]

unit [illegible] ID [illegible]

```
([illegible])[[illegible]]([illegible])
([illegible])[[illegible]](DeepMind [illegible])
()[[illegible]](DeepMind)
```

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([illegible])[[illegible]]([illegible])


([illegible])[[illegible]]([illegible])
()[[illegible]]([illegible])
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```

[illegible]

- [illegible]
- [illegible] DeepMind[illegible]

`([illegible])` [illegible] ——[illegible] `([illegible])` [illegible] §[illegible] [illegible] 1 [illegible]

? 5 — ??????????? + ????

[illegible]

> [illegible]
> [illegible] ——[illegible]
> ——[illegible]

[illegible] narrative arc [illegible] [illegible] / [illegible] ——[illegible] 1 [illegible] setup[illegible] 2 [illegible] setup[illegible] 3 [illegible] [illegible] + [illegible] [illegible] wrap [illegible]

???spine?

[illegible] 3 [illegible] spine units[illegible] 3 [illegible]

```
# SPINE
([illegible])[[illegible]]([illegible])          # spine.1   [illegible] [[illegible]]
([illegible])[[illegible]](u_c)                  # spine.2   [illegible] [[illegible]]
(u_b)[[illegible]]([illegible], [illegible])     # spine.3 = u_c   [illegible] [[illegible]]
()[[illegible]]([illegible])
```

[illegible] `[illegible]` / `[illegible]` / `[illegible]` [illegible] unit [illegible] family [illegible] `[illegible]` / `[illegible]` / `[illegible]` [illegible]

??????spine.2 / spine.3 ???

```
(□□)[□□]()                          # u_a
()[□□](□□)

(u_a)[□□](□□□□□□□□)               # u_b
()[□□](□□)

(u_b)[□□](□□, □□)                   # u_c   ← □ spine.3
()[□□](□□)
```

`(□)[□□](u_c)` □□ u_c → u_b → u_a □□□□□□□□□□□□□□□□ ——□□□□□ `[□□](u_a, u_b, u_c)` □□□□□□□□□□

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```
# □□ spine
(□)[□□](□□□□□□□□□□)              # spine.1   □□: □□
(□)[□□](u_c)                            # spine.2   □□: □□
(u_b)[□□](□□, □□)                   # spine.3 = u_c   □□: □□
  ()[□□](□□)

# spine.2 □□□□□□
(□□)[□□]()                            # u_a
  ()[□□](□□)
(u_a)[□□](□□□□□□□□)               # u_b
  ()[□□](□□)
(u_b)[□□](□□, □□)                   # u_c

# (□) □□□□□□□□D □□□
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1. □□□□ **— A.a** □□□□□□ □□□□□□□□□□□□□□□□ "□□□□□□□□ "——□ unit □ `(□)[□□](u_c)` □ `□□` / `□□` □□□□□□□□□□□□□ `(□)` □□□ `(□□, □□)` □□□□□□□□ narrative arc□□□□□□□□

2. **B** □□□□□□ □□□□□ `□□ / □□ / □□` □□□□□□□□□ unit □□□ family □□ `□□ / □□ / □□` □□□□□□ family □□□□□□□□
3. **C** □□□□□ □ `□□□□ / □□□□ / □□` □□ 3 □ `[□□]` unit□□□□□ (□□) □□□ `[□□](□□□□, □□□□, □□)` □□□□□□□□ "□□□□□□□□ " □□□□□□□□
4. **D (□)** □□□□□□ □□□ + `[□□]` □□□□ —□□□ (□) □□□ `[□□□□](□□□)` □□□□□□□□□□□ "□□□□□□□□ " □□□□□□□□ (□)□□ □□□□□□□□□□□□□□□□
5. `(□)[□□](u_c)` □□□□□□ □ u_c → u_b → u_a □□□□□□□□□□□□□□ unit ID□□□□ `[□□](u_a, u_b, u_c)` □
6. □□□□□□□□□ □□ 2 □ `(□□)[□□]()` / `(□)[□□](□□)` □□□□ —□□□ setup □□□□□□□□□□□□□□ (□) / (□□) □□□□
7. □□□ `□□` □□□ I □□□□□ `(□□)[□□](...)` □□□□□□□□□ `()[□□□](□□)` □□ unit□
8. □□□□ `□` □□□ 1 □□□ (□)□□□□□□□ ID□□□□□□ "□ " □□□□□□□

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[illegible] "[illegible] / [illegible] / [illegible] / [illegible] "[illegible]

1. [illegible] [illegible] ML [illegible]
2. [illegible] [illegible]
3. [illegible] [illegible] ——[illegible]
4. [illegible] [illegible] GAN [illegible] → [illegible] UDA [illegible] SOTA[illegible]

[illegible] = 4 [illegible] spine[illegible]

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[illegible] / [illegible] unit[illegible]

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[illegible] / [illegible]
   ([illegible]) ── [[illegible]] ── ([illegible])            ([illegible]) ── [[illegible]] ── ([illegible])
   ([illegible]) ── [[illegible]] ── ([illegible])            ([illegible]) ── [[illegible]] ── ([illegible])
   ([illegible]) ── [[illegible]] ── ([illegible])            ([illegible]) ── [[illegible]] ── ([illegible])
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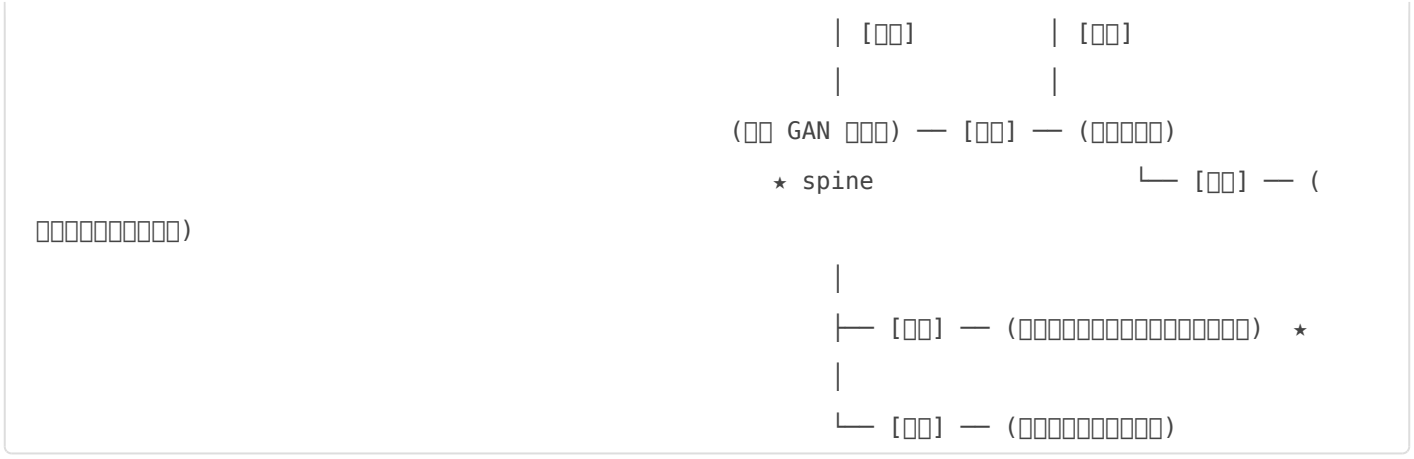

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- u2.1 `(□□□□□□□)[□□](□□□□□□□□□□□□□□□□□□□□)` — □ 2 ↔ □ 1□□□□□□□ `(□□□□□□□□□□□□)[□](□□□□□)` □□□
- u3.1 `(□□□□□□□□□□□□□)[□□□](s2.u2)` — □ 3 → □ 2□ UDA □□□□□□□□□ 2 □ u_e□
- u4.1 `(□□ GAN □□□)[□□](□□□□□□□□□□□□)` — □ 4 → □ 3□
- u4.5 `(□□□□□□)[□□](□□□□□□□□□□□□)` — □ 4 → □ 3□

□ u4.1 / u4.5 □ `[□□]` □□□ u3.1 □ `[□□□ u_e]` □□□□□ (□□ GAN □□□) □ (□□□□□)——□□□□□□ `[□□□ u_e]` □□

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2. □□□□ = □ **spine**□ 4 □□□ 4 □ spine□□□ spine □□ u4.2□
3. □□□□ `sN.uM`□ u3.1 □□□ 2 □ u_e□ u_a / u_b □□ ID □□□□□□□□□□□□□□□□ ID □
4. □□□□□□□□□□ □ (□□□□□□□□□) / (□□□□□) / (□□ GAN □□□) □□□□□□□□□□□□□□□□□□□□□□□□□□□□

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Updated 2026-05-09 15:15:52 UTC by Colin