

# **mk semi lattice(logic)**

**How to make a node-edge graph**

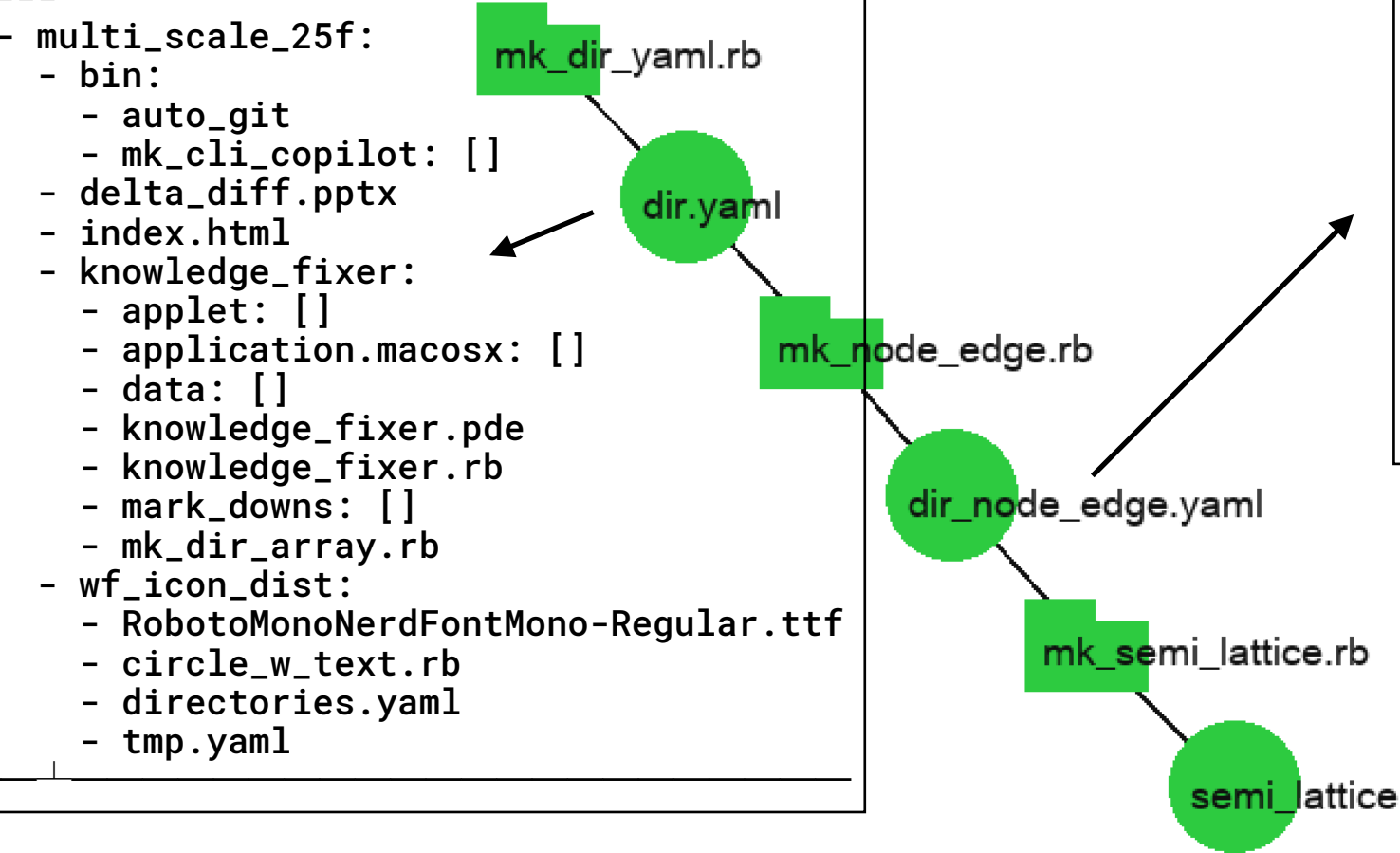
# gem install mk\_semi\_lattice

at w5\_... > mk\_semi\_lattice

File: directories.yamll

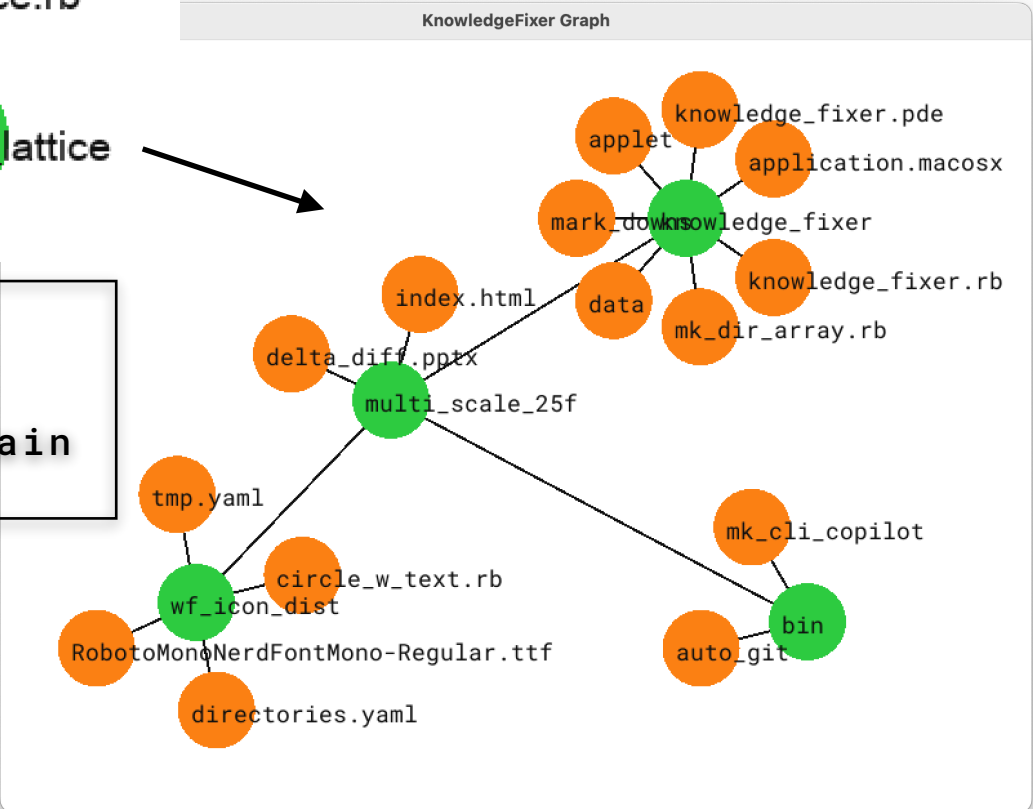
```
1  ---
2  - multi_scale_25f:
3    - bin:
4      - auto_git
5      - mk_cli_copilot: []
6    - delta_diff.pptx
7    - index.html
8    - knowledge_fixer:
9      - applet: []
10     - application.macosx: []
11     - data: []
12     - knowledge_fixer.pde
13     - knowledge_fixer.rb
14     - mark_downs: []
15     - mk_dir_array.rb
16   - wf_icon_dist:
17     - RobotoMonoNerdFontMono-Regular.ttf
18     - circle_w_text.rb
19     - directories.yamll
20     - tmp.yamll
```

```
node applet
node application.macosx
node data
node knowledge_fixer.pde
node knowledge_fixer.rb
node mark_downs
node mk_dir_array.rb
node wf_icon_dist
node RobotoMonoNerdFontMono-Regular.ttf
node circle_w_text.rb
node directories.yamll
node tmp.yamll
multi_scale_25f--bin
bin--auto_git
bin--mk_cli_copilot
multi_scale_25f--delta_diff.pptx
multi_scale_25f--index.html
multi_scale_25f--knowledge_fixer
knowledge_fixer--applet
knowledge_fixer--application.macosx
knowledge_fixer--data
knowledge_fixer--knowledge_fixer.pde
```



```
> tree -L 2 .
.
├── Rakefile
├── archives
│   ├── mk_semi_lattice
│   ├── s0_pre_codes
│   ├── s1_pde2rb
│   ├── s2_relax
│   ├── s3_mk_dir_yamll
│   ├── s4_mk_node_edge_yamll
│   ├── s5_mk_lat_graph
│   └── s6_whole_steps
├── current_code--> ./archives/s6_whole_steps/
├── hyper_card
│   ├── hyper_card.yamll
│   └── hyper_card_node_edge_yamll
```

Usage:  
click : fix  
drag : move  
shift-click : relax again  
double click: open





# double\_click\_action

```
if clicked_node
  is_double, now = double_click?(clicked_node, last_click_node, last_click_time)
  double_click_action(clicked_node) if is_double
  last_click_time = now
  last_click_node = clicked_node
end
```

```
def double_click_action(clicked_node)
  comm = nil
  if clicked_node.file_path
    if File.directory?(clicked_node.file_path)
      if RbConfig::CONFIG['host_os'] =~ /darwin/
        comm = "open -a Terminal '#{clicked_node.file_path}'"
      else
        comm = "wt.exe -p Ubuntu-24.04 --colorScheme 'Tango Light' '#{clicked_node.file_path}'"
      end
    else
      if RbConfig::CONFIG['host_os'] =~ /darwin/
        comm = "open '#{clicked_node.file_path}'"
      else
        comm = "explorer.exe '#{clicked_node.file_path}'"
      end
    end
    puts comm
    system comm
  else
    puts "no link error"
  end
end
```

## #### ステップごとの動作

### 1. \*\*クリックされたノードがあるか判定\*\*

`if clicked\_node` で、クリック位置にノードがあった場合のみ処理を進めます。

### 2. \*\*ダブルクリック判定\*\*

```
`if last_click_node == clicked_node && last_click_time && (now - last_click_time < 0.4)`
```

- 前回クリックしたノードと同じノードをクリックしているか
- 前回クリック時刻が記録されているか
- 前回クリックから0.4秒以内か

これらを満たす場合、ダブルクリックとみなします。

### 3. \*\*ファイルオープンコマンドの生成\*\*

- ノードにファイルパスがある場合のみ処理
- ディレクトリなら
  - Macなら `open -a Terminal 'ディレクトリパス'`
  - それ以外 (Windows 想定) なら `wt.exe ...`
- ファイルなら `node file\_path`
  - Macなら `open 'ファイルパス'`
  - それ以外なら `explorer.exe 'ファイルパス'`
- コマンドを `comm` に格納し、標準出力に表示後、`system comm` で実行

### 4. \*\*ファイルパスがなければエラー表示\*\*

`"no link error"` を出力

### 5. \*\*クリック時刻・ノードの記録\*\*

ダブルクリック判定用に、`last\_click\_time` と `last\_click\_node` を更新

この処理により、ノードをダブルクリックすると、そのノードに紐づくファイルやディレクトリがOSに応じた方法で開かれます。

daddygongon: #file:mk\_semi\_lattice.rb:93-111 を切り出して、  
double\_click\_actionという関数にしてください。

GitHub Copilot: `### [mk_semi_lattice.rb](file:///Users/bob/git_hub/mk_semi_lattice/lib/mk_semi_lattice.rb)`

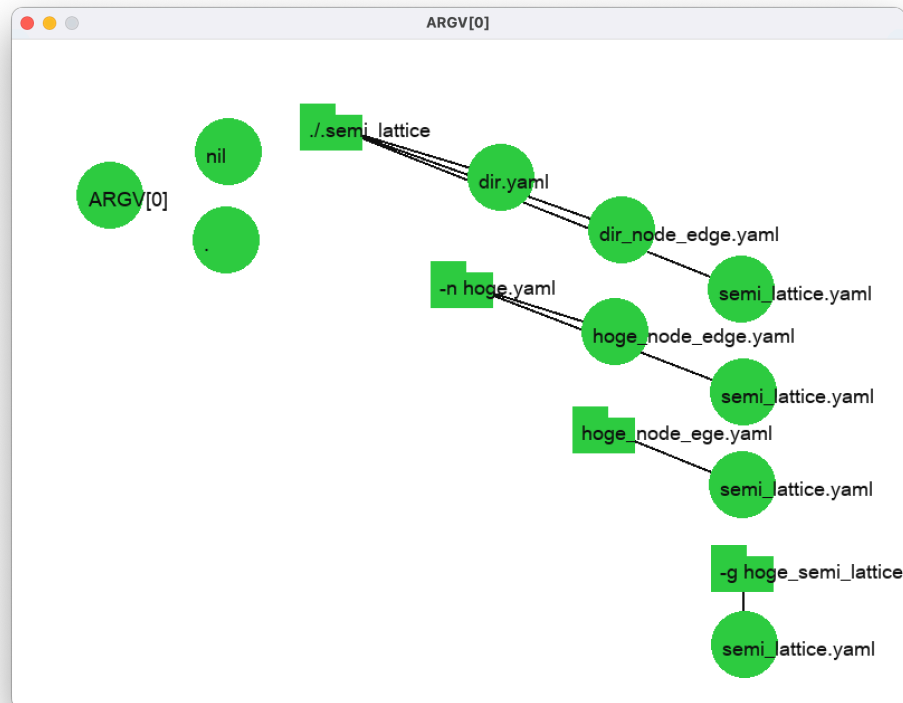
`93-111` のダブルクリック判定とファイルオープン処理を

`double_click_action(clicked_node, last_click_node, last_click_time)`  
関数に切り出します。

`last\_click\_time` と `last\_click\_node` の更新は呼び出し元で行うようにします。

# yaml selection

yaml selection



```
path = ARGV[0] || '.'
$semi_dir = File.join(path, '.semi_lattice')

if options[:node_file]
  input_path = options[:node_file]
  parent_dir = File.dirname(input_path)
  base = File.basename(input_path, File.extname(input_path))
  output_path = File.join(parent_dir, "#{base}_node_edge.yaml")
  semi_lattice_yaml = File.join(parent_dir, "semi_lattice.yaml")
  if File.exist?(semi_lattice_yaml)
    warn "Warning: #{semi_lattice_yaml} already exists. Aborting.".colorize(:red)
    exit 1
  end
  MkSemiLattice::MkNodeEdge.new(input_path: input_path, output_path: output_path)
  file = output_path # ← ここでfileにoutput_pathを代入
elsif path == '.'
  Dir.mkdir($semi_dir) unless Dir.exist?($semi_dir)
  dir_yaml_path = File.join($semi_dir, 'dir.yaml')
  MkSemiLattice::MkDirYaml.new(path: path, layer: options[:layer],
                              output_file: dir_yaml_path)
  MkSemiLattice::MkNodeEdge.new(input_path: dir_yaml_path,
                                output_path: File.join($semi_dir, 'dir_node_edge.yaml'))
end

file ||= ARGV[0] || File.join($semi_dir, "dir_node_edge.yaml")
semi_lattice_yaml_path = File.join($semi_dir, "semi_lattice.yaml")

if options[:graph_file]
  file = options[:graph_file]
  app = MkSemiLatticeData.new(file, with_semi_lattice_yaml: true)
elsif File.exist?(semi_lattice_yaml_path)
  file = semi_lattice_yaml_path
  app = MkSemiLatticeData.new(file, with_semi_lattice_yaml: true)
else
  app = MkSemiLatticeData.new(file)
end
```

# final

```
parent_dir = Dir.pwd
semi_dir = File.join(parent_dir, '.semi_lattice')
semi_lattice_yaml_path = File.join(semi_dir, "semi_lattice.yaml")

init_file, init_step = if (ARGV[0]== '.' || ARGV[0].nil?) && !options[:file]
  if Dir.exist?(semi_lattice_yaml_path)
    [semi_lattice_yaml_path, :from_semi_lattice]
  else
    ['.', :from_dir]
  end
else
  [ARGV[0], options[:init_step]]
end

input_path, with_semi_lattice_yaml = case init_step
when :from_dir
  Dir.mkdir(semi_dir) unless Dir.exist?(semi_dir)
  in_path, out_path = init_file, File.join(semi_dir, 'dir_tree.yaml')
  MkSemiLattice::MkDirYaml.new(path: in_path, layer: options[:layer],
                              output_file: out_path)

  in_path, out_path = out_path, File.join(semi_dir, 'dir_node_edge.yaml')
  MkSemiLattice::MkNodeEdge.new(input_path: in_path,
                                output_path: out_path )

  [out_path, false]
when :from_tree
  init_file = options[:file]
  base = File.basename(init_file, File.extname(init_file))
  in_path, out_path = init_file, File.join(parent_dir, "#{base}_node_edge.yaml")
  MkSemiLattice::MkNodeEdge.new(input_path: in_path, output_path: out_path)
  [out_path, false]
when :from_node_edge
  if File.exist?(File.join(parent_dir, 'semi_lattice.yaml'))
    puts "Warning: semi_lattice.yaml already exists in current directory.".yellow
    exit 1
  end
  [options[:file], false]
when :from_semi_lattice
  [init_file, true]
end

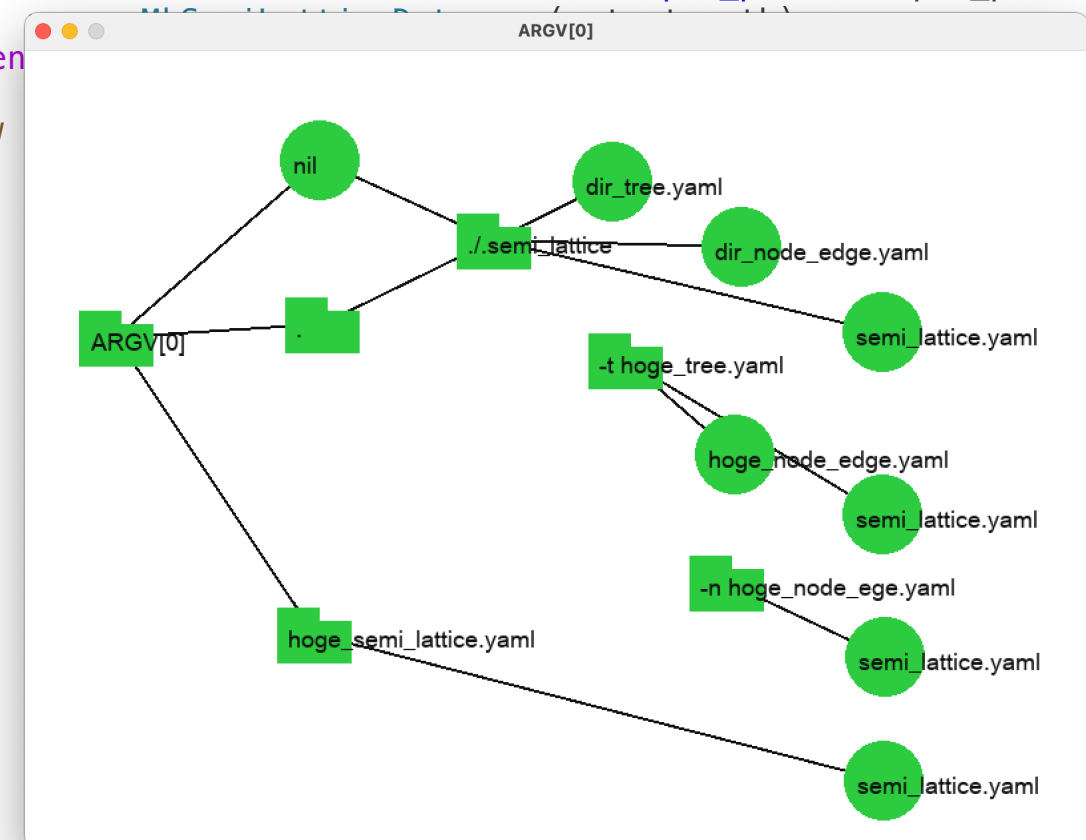
# p [input_path, with_semi_lattice_yaml]

app = MkSemiLatticeData.new(input_path,
  with_semi_lattice_yaml: with_semi_lattice_yaml)
```

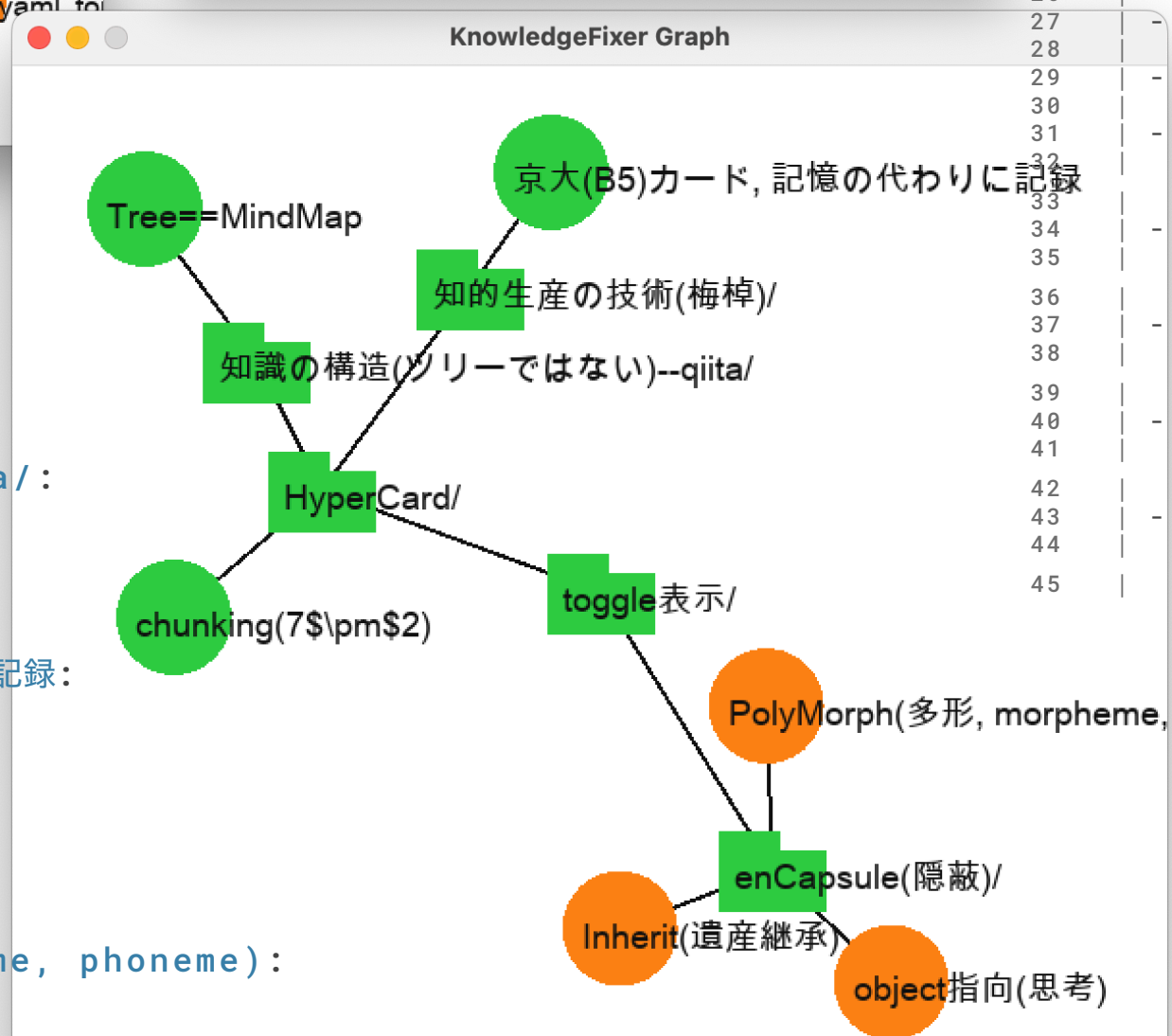
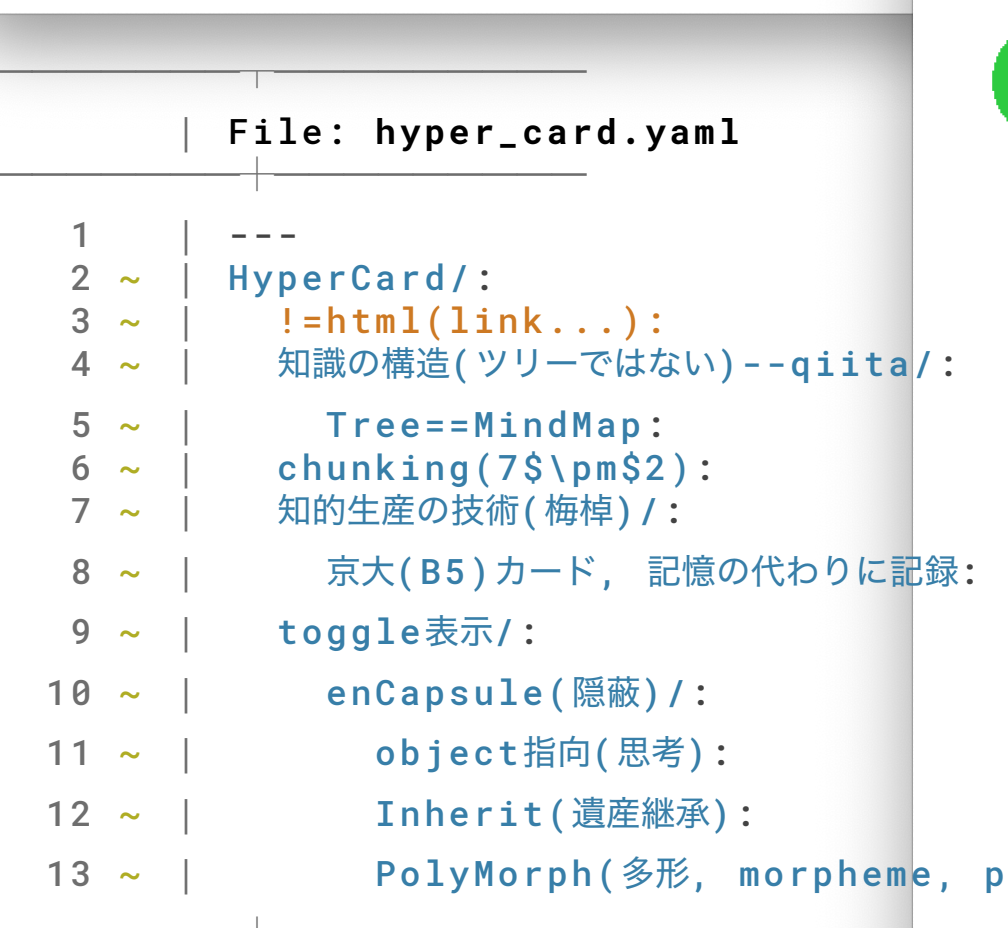
# revising

```
if options[:node_file]
  input_path = options[:node_file]
  app = MkSemiLatticeData.new(input_path)
elsif options[:tree_file]
  input_path = options[:tree_file]
  parent_dir = File.dirname(input_path)
  base = File.basename(input_path, File.extname(input_path))
  output_path = File.join(parent_dir, "#{base}_node_edge.yaml")
  semi_lattice_yaml = File.join(parent_dir, "semi_lattice.yaml")
  if File.exist?(semi_lattice_yaml)
    warn "Warning: #{semi_lattice_yaml} already exists. Aborting."
    exit 1
  end
  MkSemiLattice::MkNodeEdge.new(input_path: input_path, output_path: output_path)
  file = output_path
  app = MkSemiLatticeData.new(output_path)
elsif path != '.'
  app = MkSemiLatticeData.new(path, with_semi_lattice_yaml: with_semi_lattice_yaml)
elsif File.exist?(semi_lattice_yaml_path)
  MkSemiLatticeData.new(semi_lattice_yaml_path, with_semi_lattice_yaml: with_semi_lattice_yaml)
else
  Dir.mkdir($semi_dir) unless Dir.exist?($semi_dir)
  dir_yaml_path = File.join($semi_dir, 'dir.yaml')
  MkSemiLattice::MkDirYaml.new(path: path, layer: options[:layer],
                              output_file: dir_yaml_path)

  output_path = File.join($semi_dir, 'dir_node_edge.yaml')
  MkSemiLattice::MkNodeEdge.new(input_path: dir_yaml_path,
                                output_path: output_path )
end
```







```

1 | ---
2 | nodes:
3 | - id: 1
4 |   name: 正の屋外空間
5 |   type: dir
6 | - id: 2
7 |   name: 階段的な屋外空間
8 |   type: dir
9 | - id: 3
10 |   name: 生き生きとした中庭
11 |   type: dir
12 | - id: 4
13 |   name: アーケード
14 |   type: file
15 | - id: 5
16 |   name: 外廊
17 |   type: file
18 | - id: 6
19 |   name: 一間バルコニー
20 |   type: file
21 | - id: 7
22 |   name: 光の入る棟
23 |   type: file
24 | edges:
25 | - from: 1
26 |   to: 7
27 | - from: 2
28 |   to: 4
29 | - from: 2
30 |   to: 3
31 | - from: 1
32 |   # from: 正の屋外空間, to: 階段的な屋外空間
33 |   to: 2
34 | - from: 1
35 |   # from: 正の屋外空間, to: 生き生きとした中庭
36 |   to: 3
37 | - from: 3
38 |   # from: 生き生きとした中庭, to: アーケード
39 |   to: 4
40 | - from: 3
41 |   # from: 生き生きとした中庭, to: 外廊
42 |   to: 5
43 | - from: 3
44 |   # from: 生き生きとした中庭, to: 一間バルコニー
45 |   to: 6

```