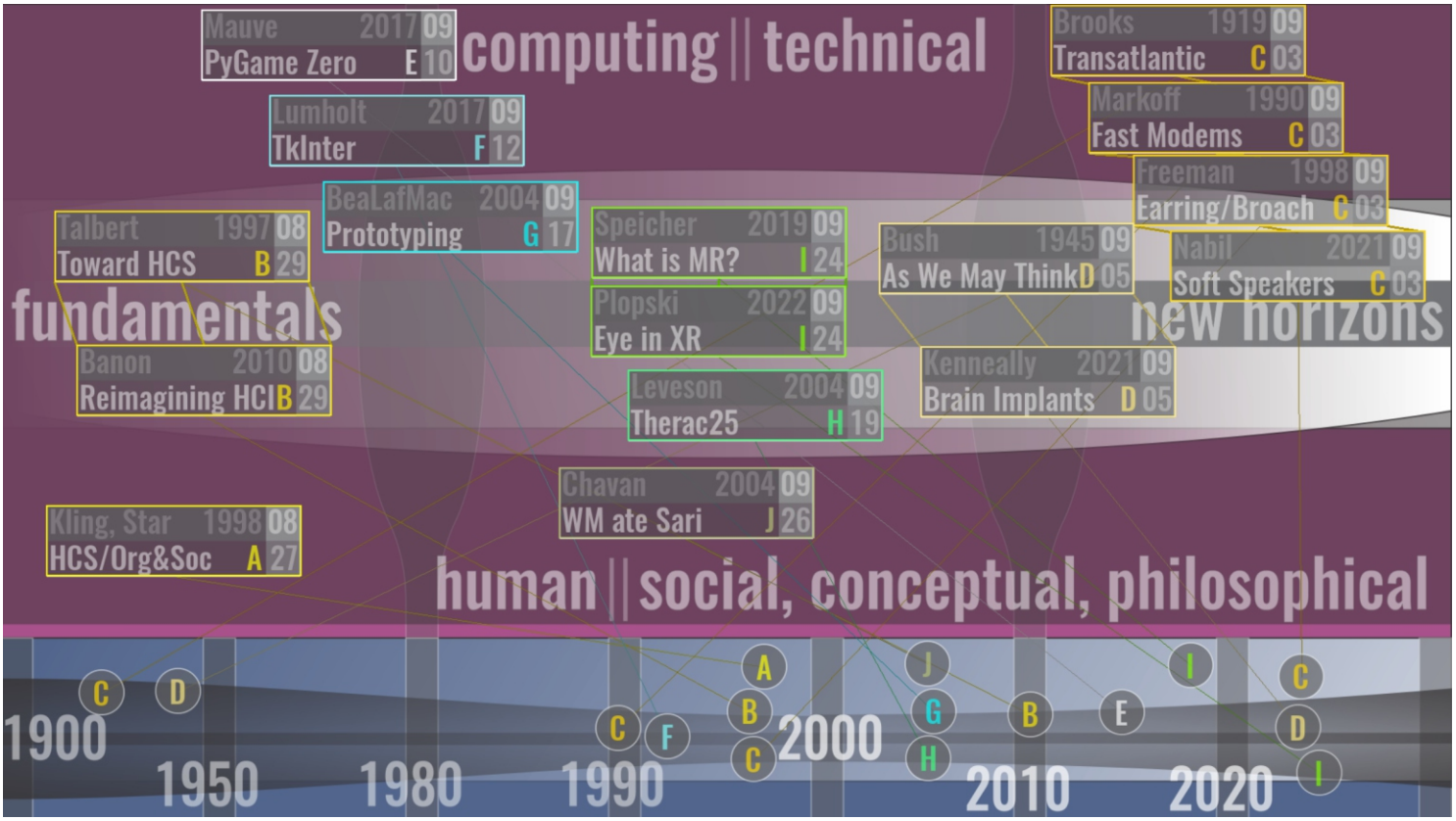
```
 1: # Example parsing class reading list
 2: # Brygg Ullmer, Clemson University
 3: # Begun 2024-09-05
 4:
 5: from hccReadingsYaml import *
 6:
 7: WIDTH, HEIGHT = 1200, 800
 8:
 9: rows, cols = 6, 2
10: dx, dy     = 350, 100
11:
12: y = y0 = 10
13: x = x0 = 50
14: actors = []
15:
16: readings = Readings()
17: numRd    = readings.size()
18: if numRd > rows * cols: numRd = rows * cols
19:
20: row, col = 0, 0
21:
22: for i in range(numRd):
23:   a = Actor('readings_box_1c', topleft=(x, y))
24:   actors.append(a); y += dy; row += 1
25:
26:   if row >= rows:
27:     row = 0; col += 1; y = y0; x += dx
28:
29: font1  = "oswald-medium"
30: cwhite = "#ffffff"
31: cblack = "#000000"
32:
33: def draw():
34:   screen.clear()
35:   for actor in actors: actor.draw()
36:   x, y     = x0, y0
37:   row, col = 0, 0
38:
39:   for i in range(numRd):
40:     r = readings.getReading(i)
41:     drawReading(r, x, y)
42:     y += dy; row += 1
43:     if row >= rows:
44:       row = 0; col += 1; y = y0; x += dx
45:
46: def on_mouse_down(pos):
47:   if a1.collidepoint(pos): print("Actor 1 was pressed")
48:   if a2.collidepoint(pos): print("Actor 2 was pressed")
49:
50: def drawReading(reading, x0, y0):
51:   au, yr, abTi, prDa = reading.getFields(['author', 'year', 'abbrevTitle', 'presentedDate'])
52:   mo, da = prDa.split('-')
53:   fs = 40
54:
55:   if type(au) is list: au2 = ', '.join(au)
56:   else:                au2 = str(au)
57:
58:   yr2 = str(yr)
59:
60:   screen.draw.text(au2,  topleft  = (x0+  3, y0- 7), fontsize=fs, fontname=font1,
                                                          color=cwhite, alpha=0.2)
61:   screen.draw.text(yr2,  topright = (x0+285, y0- 7), fontsize=fs, fontname=font1,
                                                          color=cwhite, alpha=0.2)
62:   screen.draw.text(abTi, topleft  = (x0+  3, y0+41), fontsize=fs, fontname=font1,
                                                          color=cwhite, alpha=0.5)
63:   screen.draw.text(mo,   topright = (x0+332, y0- 7), fontsize=fs, fontname=font1,
                                                          color=cblack, alpha=0.4)
64:   screen.draw.text(da,   topright = (x0+332, y0+41), fontsize=fs, fontname=font1,
                                                           color=cwhite, alpha=0.3)
```

```
 1: # Example ~visualizing class readings
 2: # Brygg Ullmer, Clemson University
 3: # Begun 2024-09-05
 4:
 5: from hccReadingsPg import *
 6:
 7: WIDTH, HEIGHT = 1920, 1080
 8:
 9: rpg = ReadingsPg()
10: bg  = Actor('bg01e')
11:
12: def draw(): screen.clear(); bg.draw(); rpg.draw(screen);
13: def on_mouse_down(pos):                rpg.on_mouse_down(pos)
14: def on_mouse_move(rel, buttons):       rpg.on_mouse_move(rel, buttons)
15: def on_mouse_up():                     rpg.on_mouse_up()
```



1: hccReadingsPg.py:

```
 3:   def __init__():
 4:   def buildUI():
 6:   def getReadingGroupColor(readingGroupId, colorType):
 7:   def calcReadingPosById(readingId):
 9:   def draw(screen):
10:   def drawLinesAmongReadingsInGroups(screen):
16:   def drawReading(screen, readingId, x0, y0):
17:   def drawTimeDotText(screen, readingId):
18:   def drawTimeDotLine(screen, readingId):
20:   def getReadingGroupLetter(readingGroupNumber):
21:   def drawLineBetweenReadings(screen, readingId1, readingId2, rcolor, lwidth=1):
```

```
12:   def on_mouse_down(pos):
13:   def on_mouse_move(rel, buttons):
14:   def on_mouse_up():
```

23: hccReadingsYaml.py:

```
25:   ################## Reading class
26:   def __init__():
27:   def setFieldsFromYaml(yd):
28:   def setField(field, val):
29:   def getField(field):
30:   def getFields(fields):
31:   def printReadingAbbrev():
32:   def print():
```

```
34: ################## Readings class
35:   def __init__():
36:   def size():
37:   def loadYaml():
38:   def printReadingAbbrevs():
39:   def getReading(i):
40:
```