## Lecture: 20-1

Prerequisites for this lecture are: 19-1, 19-2 and 19-3.

#### File export/File import/Next/Back

- improving the export function and coordinating the result of an unsuccessful export with the doom button
  - if the export should fail, then the doom3 button should be frozen

```
def save_map (name):
    f = open (name, "w")
    f = write_assets (f)
    f.write ("\n") # add blank line for eye candy
    f = write_map (f)
    f.close ()

def myexport (name, tap):
    pygame.display.update ()
    save_map (current_map_name)
    check_export ()
```

# check\_export

def check\_export ():
 etc

### write\_map

- there is currently a problem with write\_map and chisel
  - if the map has leading spaces chisel will fail
  - if the map has trailing spaces then chisel will also fail
- while this is a bug in chisel
  - we can avoid it by trimming spaces from our file in write\_map
  - this is common practice in software engineering

#### write\_map

```
def write_map (f):
    left, right = determine_range ()
    m = ""
    mdict = {"v":"#", "h":"#", "-":".", "|":".", " ":" ",
             "H":"H", "S":"S", "T":"T"}
    x, y = cell_array.high ()
    for j in range (y):
        for i in range (left, right+1):
            if mdict.has_key (cell_array.get (i, j)):
                m += mdict[cell_array.get (i, j)]
            else:
                m += cell_array.get (i, j)
        # skip blank lines
        m = m.rstrip ()
        if len (m) > 0:
            m += " \setminus n"
    f.write (m)
    return f
```

### determine\_range