

# Geometric & Graphics Programming Lab: Lecture 29

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# Workshop N.11 – Housing: suburban neighborhood design

# Housing: suburban neighborhood design

Goal: Develop a model of a **suburban housing neighborhood** in Python, by coherently assembling several instances of **pluggins** previously designed and developed.

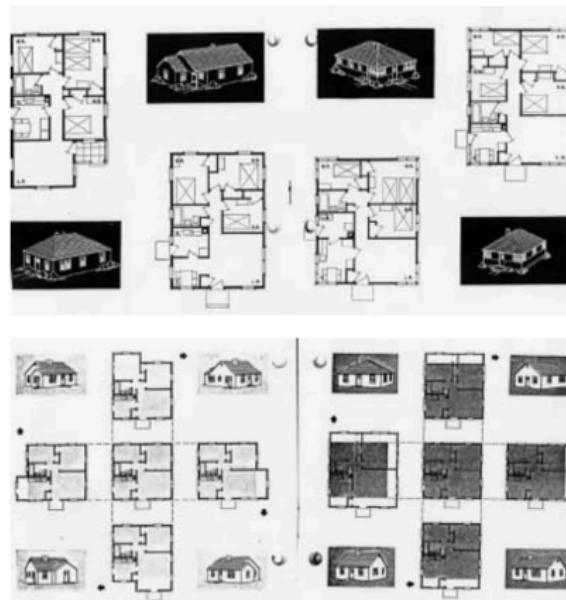


Figure 1: Suburban sprawl planning

## Look at some examples

- suburban landscape planning and design
- neighborhood housing planning
- neighborhood planning
- neighborhood houses plans
- planning modern village housing designs
- village housing planning

# Some terminology, examples and regulations



*Elevations and floor plans from the 1940 edition of Principles*

Figure 2:

[https://www.nps.gov/nr/publications/bulletins/01workshop/sub\\_landsc.htm](https://www.nps.gov/nr/publications/bulletins/01workshop/sub_landsc.htm)

# REQUIREMENTS

- Write a single notebook, named `workshop_10.ipynb`
- Choose a notebook Title, for example  
`<Design_of_parametric_multistorey_house>`
- Start the notebook with a `web reference` and one/more `image/s` of your `type of design`
- List the `variables` used in your code, with a `textual definition`
- Include the coding of one main parametric function named `multistorey_house`
- Please `currying` the main function (n. of levels `free`):
- Choose your own formal parameters
- Provide the `images` generated by `some executions` with very different actual parameters.
- Use measures in `meters (m)`

# Style specs

- use **meaningfull identifiers** (variables and parameters)
- use **camelCase** ids
- add **Python docstrings** (google for it)
- produce a **single** notebook file, named **workshop\_10.ipynb**
- file path: **your\_repo/2017-01-13/workshop\_10.ipynb**

# Minimal git/github instructions

# Minimal git/github instructions (1/2)

create your local repository

```
$ mkdir 2017-01-13  
$ cd 2017-01-13  
$ touch workshop_10.ipynb
```

# Minimal git/github instructions (2/2)

commit your work

```
$ git add -A .
$ git commit -m "add a short note to commit"
$ git push origin master
```