
well-schematics documentation

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`well-schematics` is a package to help with making schematic diagrams of the construction of boreholes and wells in `matplotlib`.

This project is based at [GitHub](#).

CHAPTER 1

Installation

well-schematics can be installed from PyPI:

```
$ pip install well-schematics
```

And updated from PyPI:

```
$ pip install -U well-schematics
```

The well-schematics PyPI package will install a Python module `well_schematics`:

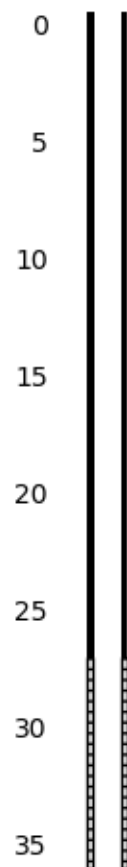
```
>>> import well_schematics as ws
```


CHAPTER 2

Examples

```
import well_schematics as ws

ws.plot_single_diameter_well(
    [
        {"type": "casing", "top": -0.5, "bottom": 27},
        {"type": "screen", "top": 27, "bottom": 36},
    ]
)
```



3.1 Groundwater resources

`well_schematics.plot_single_diameter_well` (*segments*, *ax=None*, *tight_layout=True*,
depth_tick_markers=False, *pipe_width=0.08*,
hatch_density=3)

Draw casing in a well which is a single diameter construction.

Parameters

- **segments** (*sequence of dicts*) – each dict should be in the form {"type": <str>, "top": <float>, "bottom": <float>}. The "type" should be either "casing", "pipe", "blank", or "sump", or a production zone type (either "screen", "slot-
ted casing" or "open hole"). "top" and "bottom" are the top and bottom of each segment.
- **ax** (*matplotlib.Axes*) – to draw in
- **tight_layout** (*bool*) – run `tight_layout()` on `ax.figure` to rearrange things to fit.
- **depth_tick_markers** (*bool*) – show tick markers for the vertical depth axis. Labels will always appear.
- **pipe_width** (*float*) – width of pipe
- **hatch_density** (*int*) – density of screen hatching

Returns: a list of the artists created.

CHAPTER 4

Indices and tables

- `genindex`
- `modindex`
- `search`

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`plot_single_diameter_well()` (*in module
well_schematics*), [7](#)