

minimal_model

March 21, 2021

1 Minimal model

Danilo Lessa Bernardineli

The shortest model ever

```
[1]: from cadCAD.configuration import Experiment
from cadCAD.configuration.utils import config_sim
from cadCAD.configuration import Configuration
from cadCAD.engine import ExecutionMode, ExecutionContext, Executor
import pandas as pd
import numpy as np
```

```
[2]: MONTE_CARLO_RUNS = 1
SIMULATION_TIMESTEPS = 100

sys_params = {
    'parameter': [1]
}

genesis_states = {
    'something': 0
}

def s_something(params,
                substep,
                state_history,
                prev_state,
                policy_input):
    new_value = np.random.randn()
    return ('something', new_value)

partial_state_update_blocks = [
    {
        'policies': {
            'something': s_something,
        },
    },
]
```

]

)

by cadCAD

ExpIDs : [0]

Execution Mode: single_threaded
Total execution time: 0.01s

```
[4]: df = pd.DataFrame(raw_system_events)
df.set_index('timestep')['something'].plot()
```

```
[4]: <AxesSubplot:xlabel='timestep'>
```

