dm-test

November 5, 2018

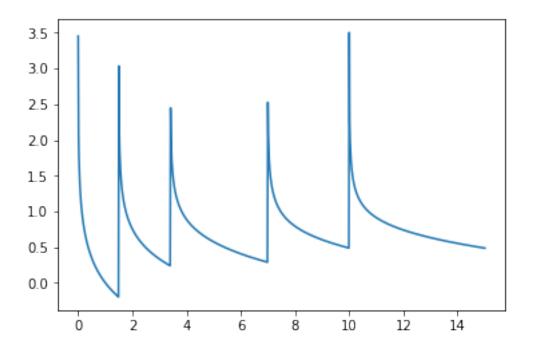
1 Declarative memory test

```
In [1]: from dm import DM # import from dm.py in the same directory
        import numpy as np
        import matplotlib.pyplot as plt

Create a new DM:
In [2]: dm = DM()
```

Add some encounters of a few different chunks. They can be any type (e.g. number of pulses) but for clarity I'm using strings here. They are stored as key-value pairs in a dictionary. The key is the content of the chunk, the value is a list of encounters.

```
In [3]: dm.add_encounter(content = "banana", time = 0)
        dm.add_encounter("orange", 2)
        dm.add_encounter("pineapple", 6)
        dm.add encounter("mango", 0)
        dm.add_encounter("mango", 1.5)
        dm.add_encounter("mango", 3.4)
        dm.add_encounter("mango", 6.99)
        dm.add_encounter("mango", 10.0)
        print(dm)
{'banana': [0], 'orange': [2], 'pineapple': [6], 'mango': [0, 1.5, 3.4, 6.99, 10.0]}
  What is the baselevel activation of the "mango" chunk over time?
In [4]: x = np.linspace(start = 0, stop = 15, num = 1000)
        bl = []
        for i in x:
            bl.append(dm.get_baselevel_activation("mango", i + 0.001))
        plt.plot(x, bl)
Out[4]: [<matplotlib.lines.Line2D at 0x7f509fd709e8>]
```



What is the retrieval latency of the "mango" chunk over time?

Out[5]: [<matplotlib.lines.Line2D at 0x7f509fca12b0>]

