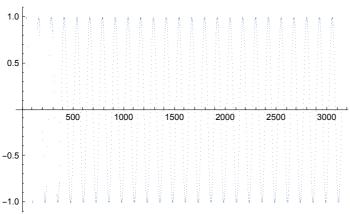
### Temporal Memory Example - Sine and Sawtooth

# Configuration

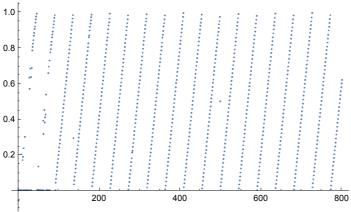
```
Get[ $UserBaseDirectory <> "/TriadicMemory/triadicmemoryC.m"]
Get[ $UserBaseDirectory <> "/TriadicMemory/temporalmemory.m"]
Get[ $UserBaseDirectory <> "/TriadicMemory/encoders.m"]
n = 1000; p = 5;
TemporalMemory[T, {n, p}];
predict[x_] := SDR2Real[T[Real2SDR[x, {-1, 1}, {n, p}]], {-1, 1}, {n, p}]
```

#### 1. Learning a sine wave

ListPlot[predict /@ Table[Sin[x], {x, 0, 50 Pi, 0.05}]]



### 2. Learning a sawtooth wave



### 3. Auto-playing

Starting from point -0.6, feeding each prediction back as input for the next step

## NestList[ predict, -0.6, 1000] // ListPlot

