```
复制
1
       # 通过HMM生成序列
2
       def generate_seq(self, seq_length):
3
           X = np.zeros((seq_length, self.x_size))
           Z = np.zeros(seq_length)
4
5
           Z_pre = np.random.choice(self.n_state, 1, p=self.start_prob) # 采样初始状态
           X[0] = self.generate_x(Z_pre) # 采样得到序列第一个值
6
7
           Z[0] = Z_pre
8
           for i in range(seq_length):
9
               if i == 0: continue
10
11
               \# P(Zn+1)=P(Zn+1|Zn)P(Zn)
12
               Z_next = np.random.choice(self.n_state, 1, p=self.transmat_prob[Z_pre,:][0])
13
               Z_pre = Z_next
               \# P(Xn+1|Zn+1)
14
               X[i] = self.generate_x(Z_pre)
15
               Z[i] = Z_pre
16
17
18
           return X,Z
```



