# 海洋科研绘图13:带Nan值时间序列的可视化





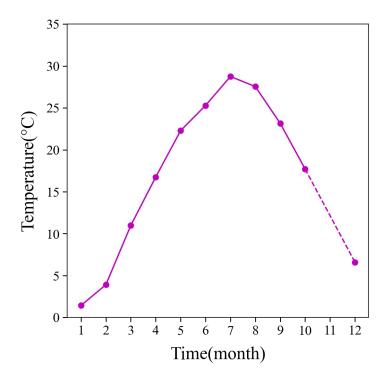
#### > 数据介绍

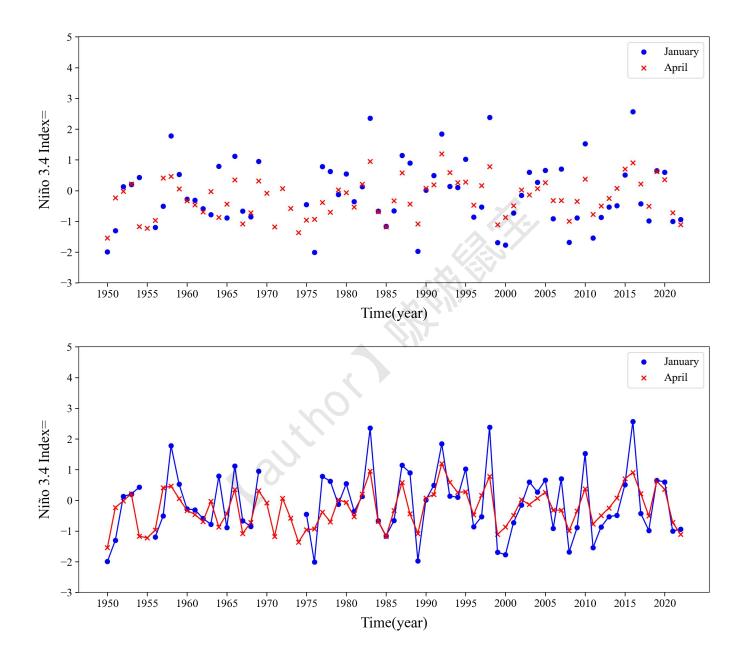
月份	1	2	3	4	5	6	7	8	9	10	11	12
气温 (°C)	1.43	3.91	10.98	16.75	22.29	25.29	28.75	27.55	23.16	17.70		6.59

tem = [1.43,3.91,10.98,16.75,22.29,25.29,28.75,27.55,23.16,17.70,np.nan,6.59]

#### 在绘图时需要特殊处理的时间序列:

- 1.带缺测值的时间序列(如本次练习的数据)
- 2.带异常值/离群值,但不适合直接剔除/替换的时间序列(其他数据画时间序列图,异常值/离群值用散点另外表示)
- 3.断开处是否添加虚线,需结合该图数据的自身性质/物理意义





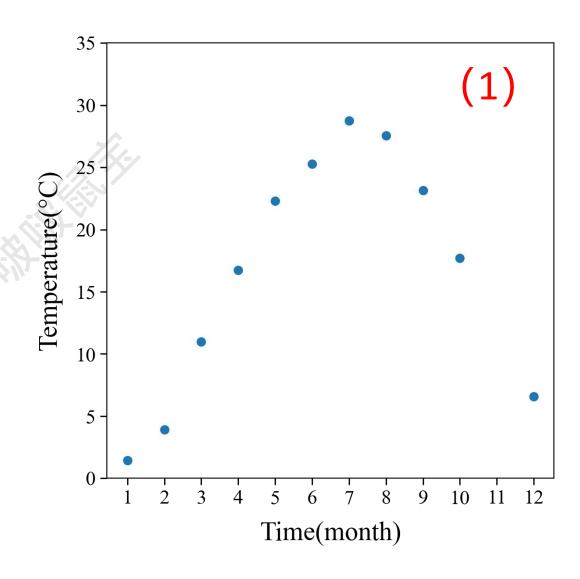
## > 最简单的散点图

#### 月份

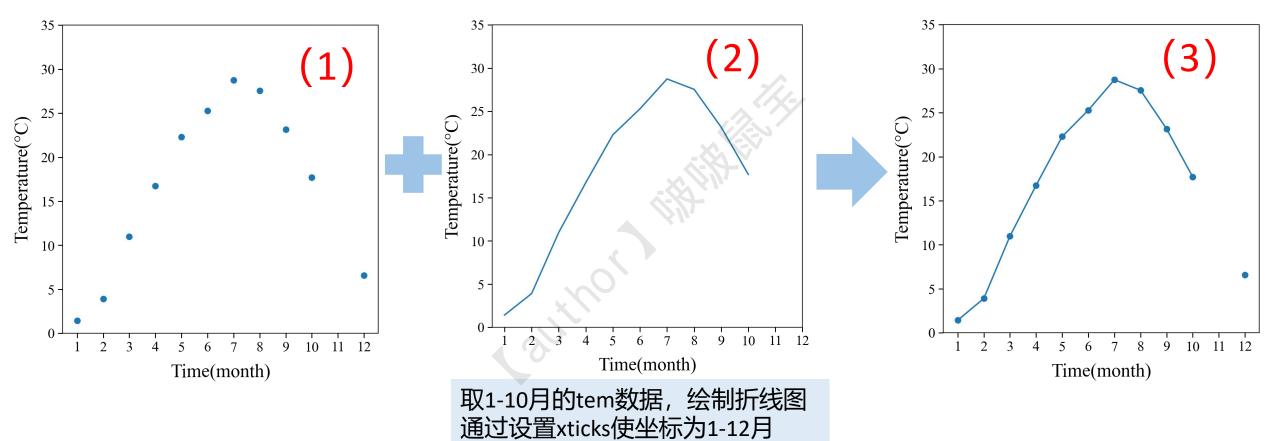
months = [1,2,3,4,5,6,7,8,9,10, 11,12] 也可使用np.arange等函数

#### 气温

tem = [1.43,3.91,10.98,16.75, 22.29,25.29,28.75,27.55,23.16, 17.70,np.nan,6.59]

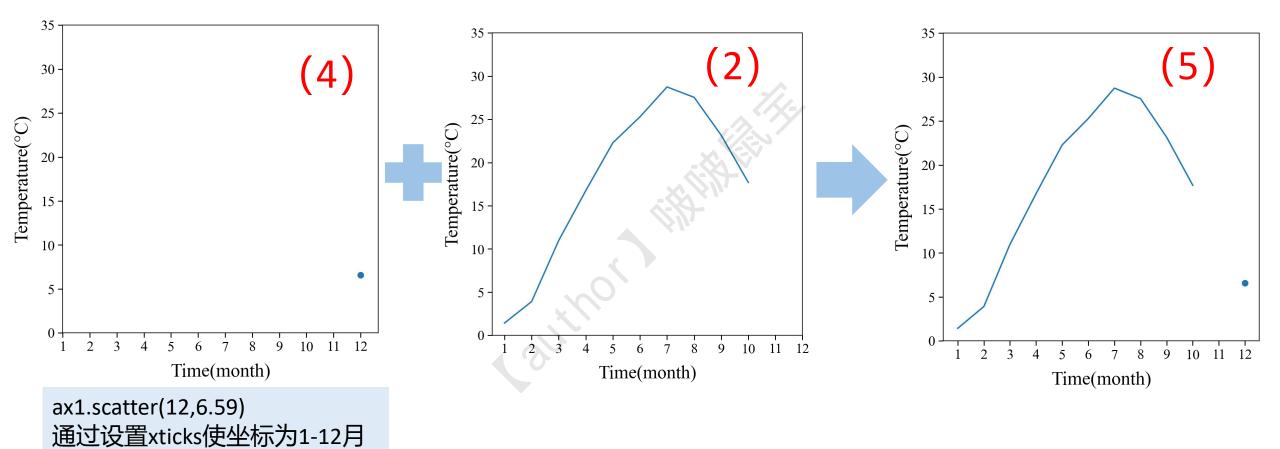


#### ▶ 散点+折线图

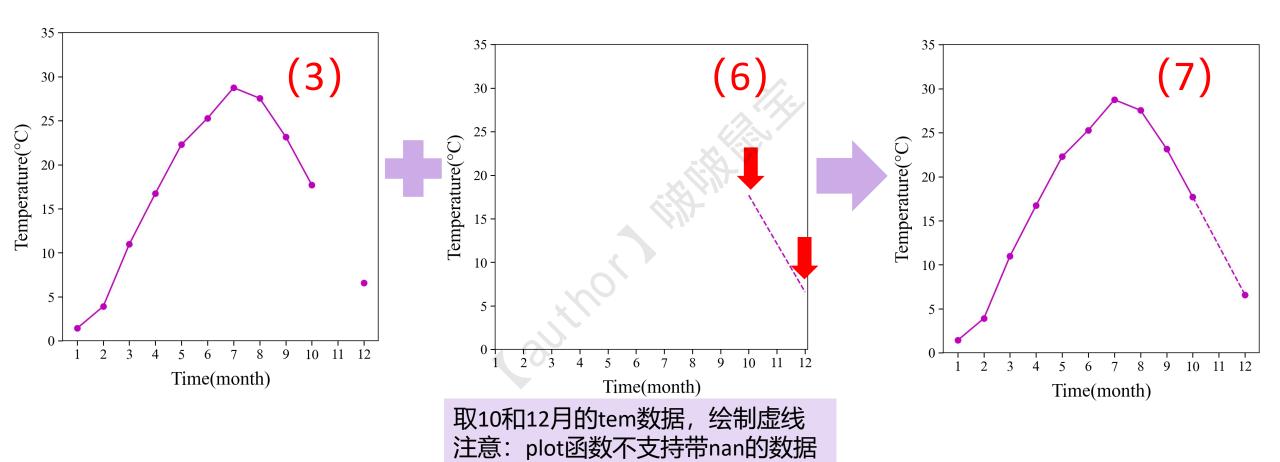


tem1 = [1.43,3.91,10.98,16.75,22.29,25.29, 28.75,27.55,23.16,17.70]

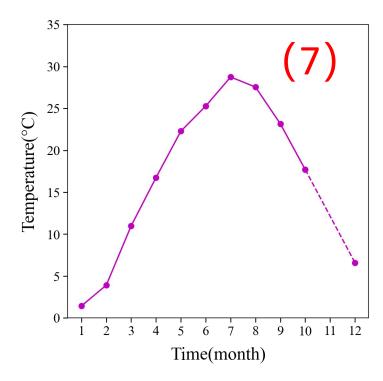
## ▶ 散点+折线图

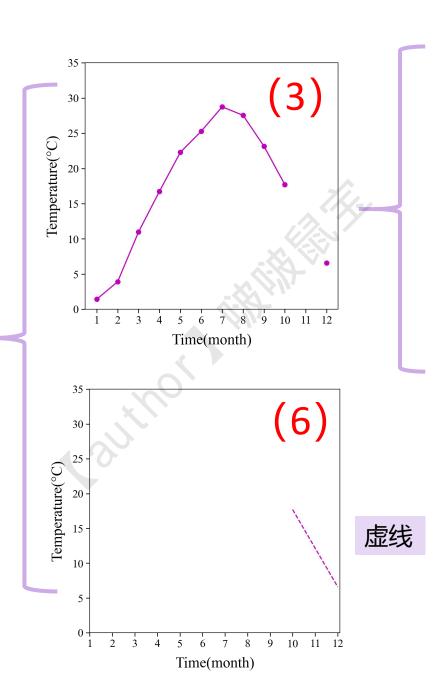


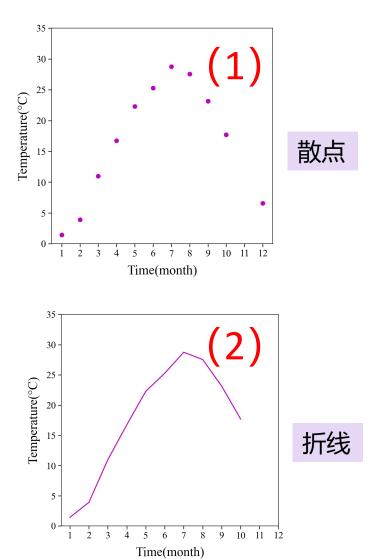
#### > 断线图



## > 总结







#### > 数据&代码获取

1.和鲸社区关注账号【啵啵鼠宝】

本项目链接:

https://www.heywhale.com/mw/project/63dcd621b89e74389754132f



啵啵鼠宝 5 巡航长 21 小时前 · △ 发布了 项目

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2.github仓库【Boboshubao】

仓库链接: https://github.com/orange-Nan/Boboshubao