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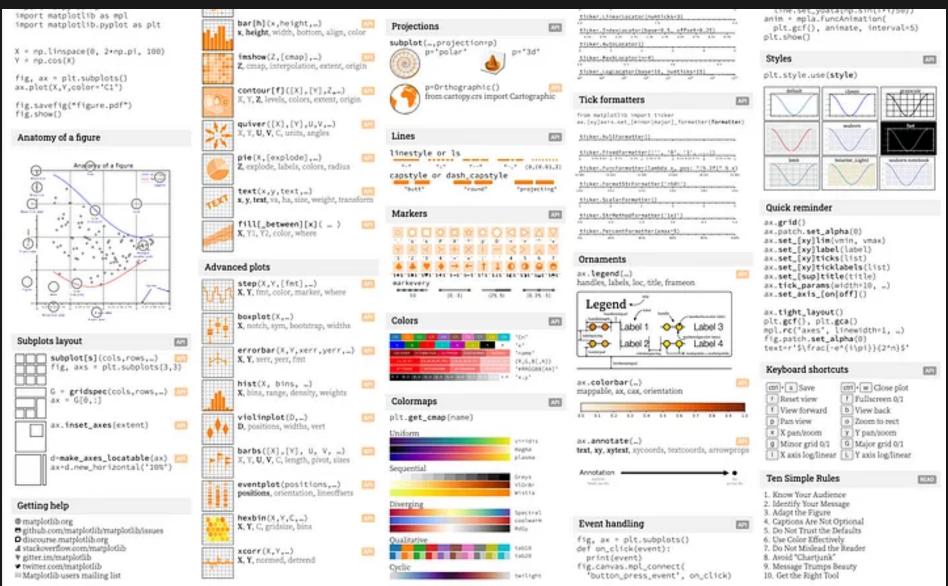
Python Cheat Sheet

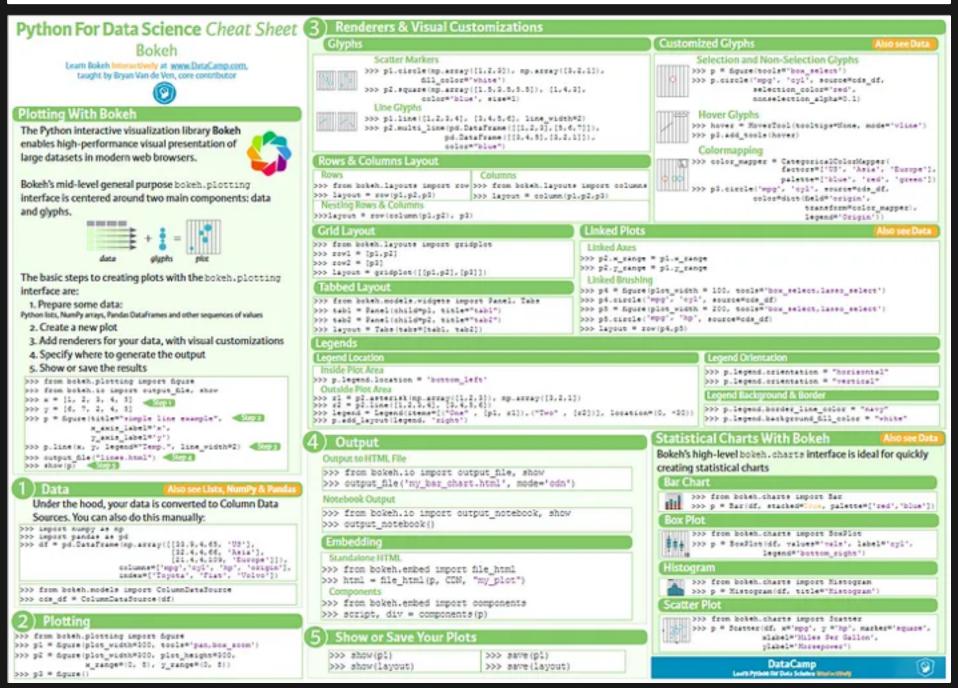
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## Quicksort

```
python

def quicksort(arr):
    if len(arr) <= 1:
        return arr
    pivot = arr[len(arr) // 2]
    left = [x for x in arr if x < pivot]
    middle = [x for x in arr if x == pivot]
    right = [x for x in arr if x > pivot]
    return quicksort(left) + middle + quicksort(right)
```

## Mergesort

```
介Copy
python
def mergesort(arr):
    if len(arr) <= 1:
        return arr
    mid = len(arr) // 2
    left = mergesort(arr[:mid])
    right = mergesort(arr[mid:])
    return merge(left, right)
def merge(left, right):
    result = []
    i = j = 0
    while i < len(left) and j < len(right):
        if left[i] < right[j]:</pre>
            result.append(left[i])
            i += 1
        else:
            result.append(right[j])
            i += 1
    result.extend(left[i:])
    result.extend(right[j:])
    return result
```