

COURSE OVERVIEW

ITEC2016 - DATA-DRIVEN VISUALIZATION FOR THE WEB

CHAPTER 0 - 2018 - HKBU

DR. MARTIN CHOY

Teaching Crew

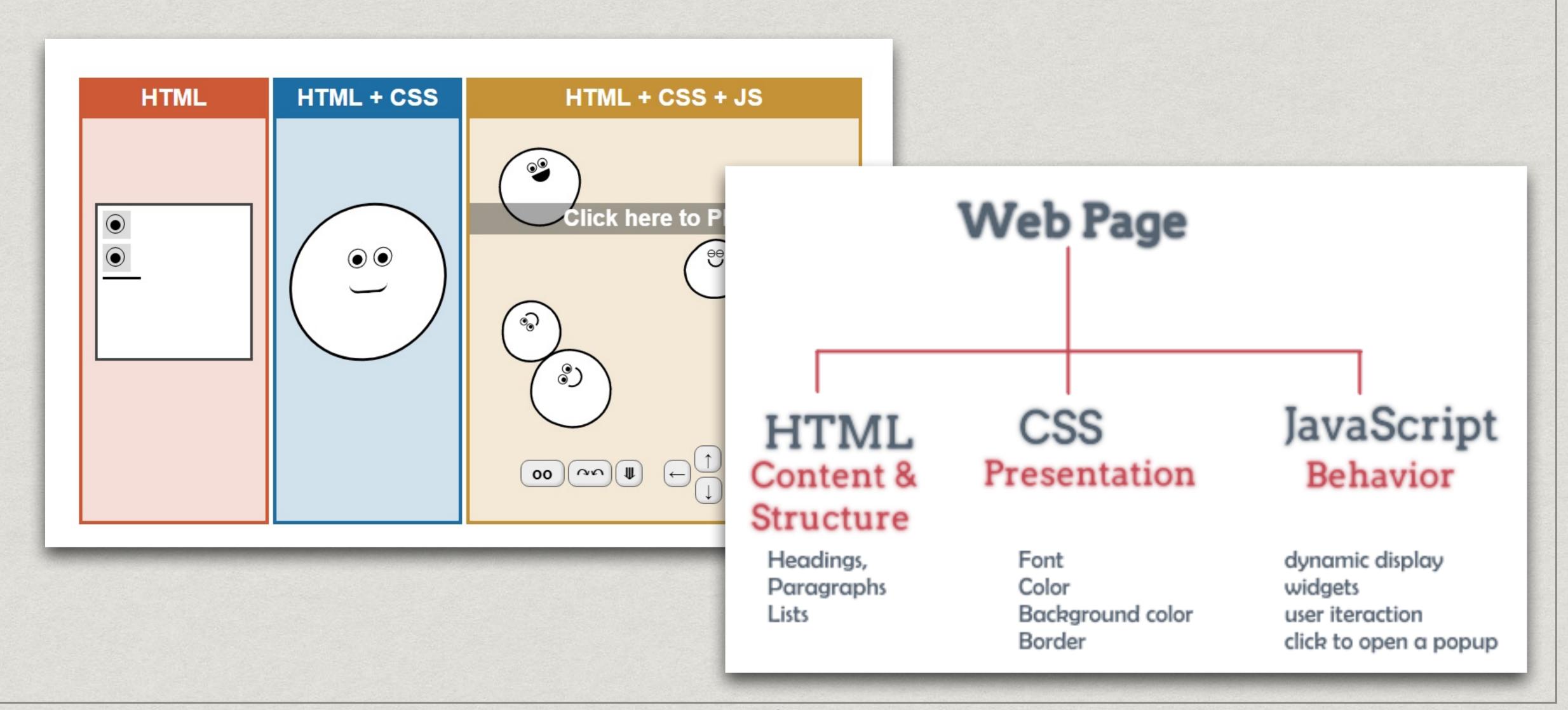


Dr. Martin Choy



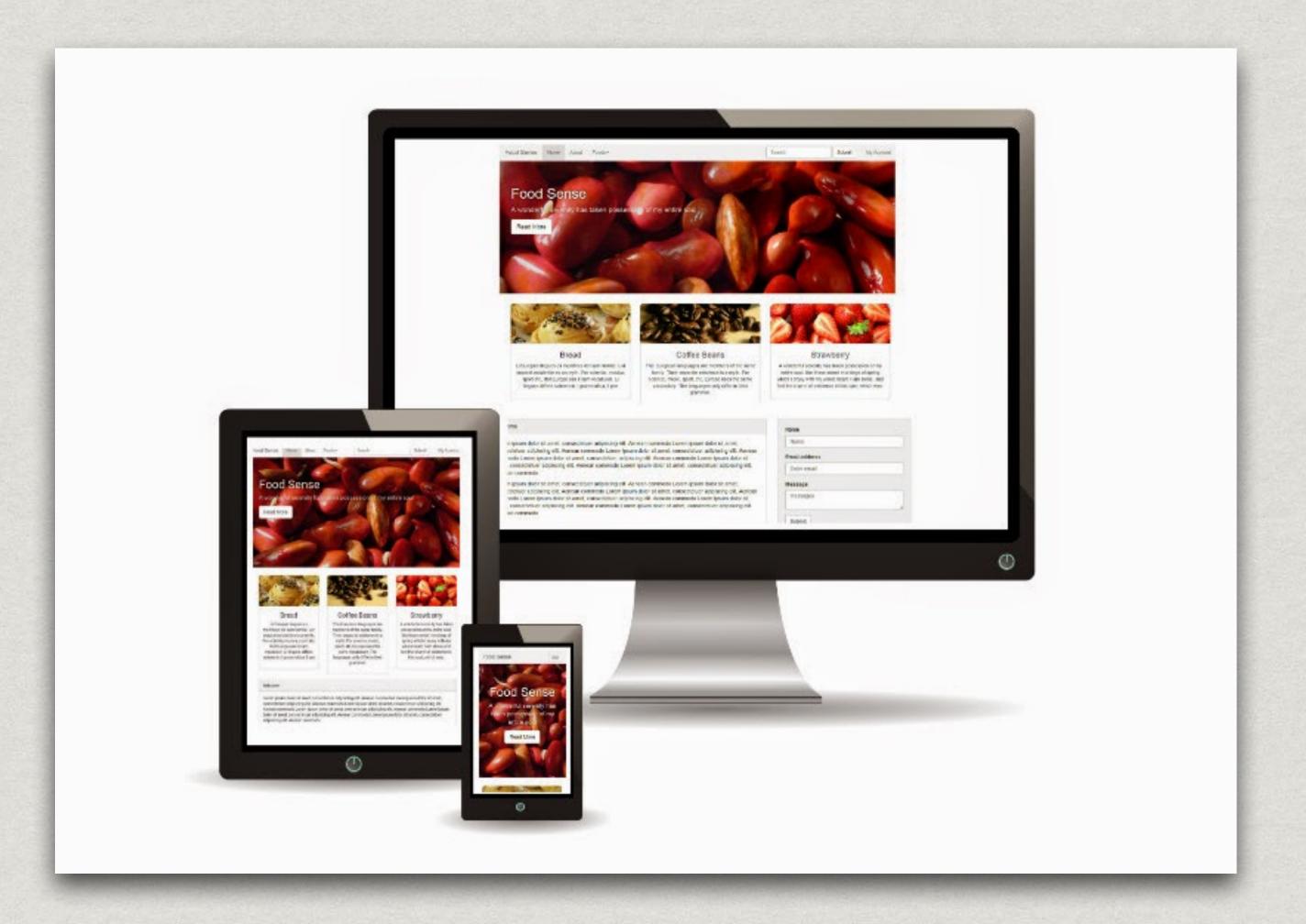
Mr. Rong Zou

Web Development

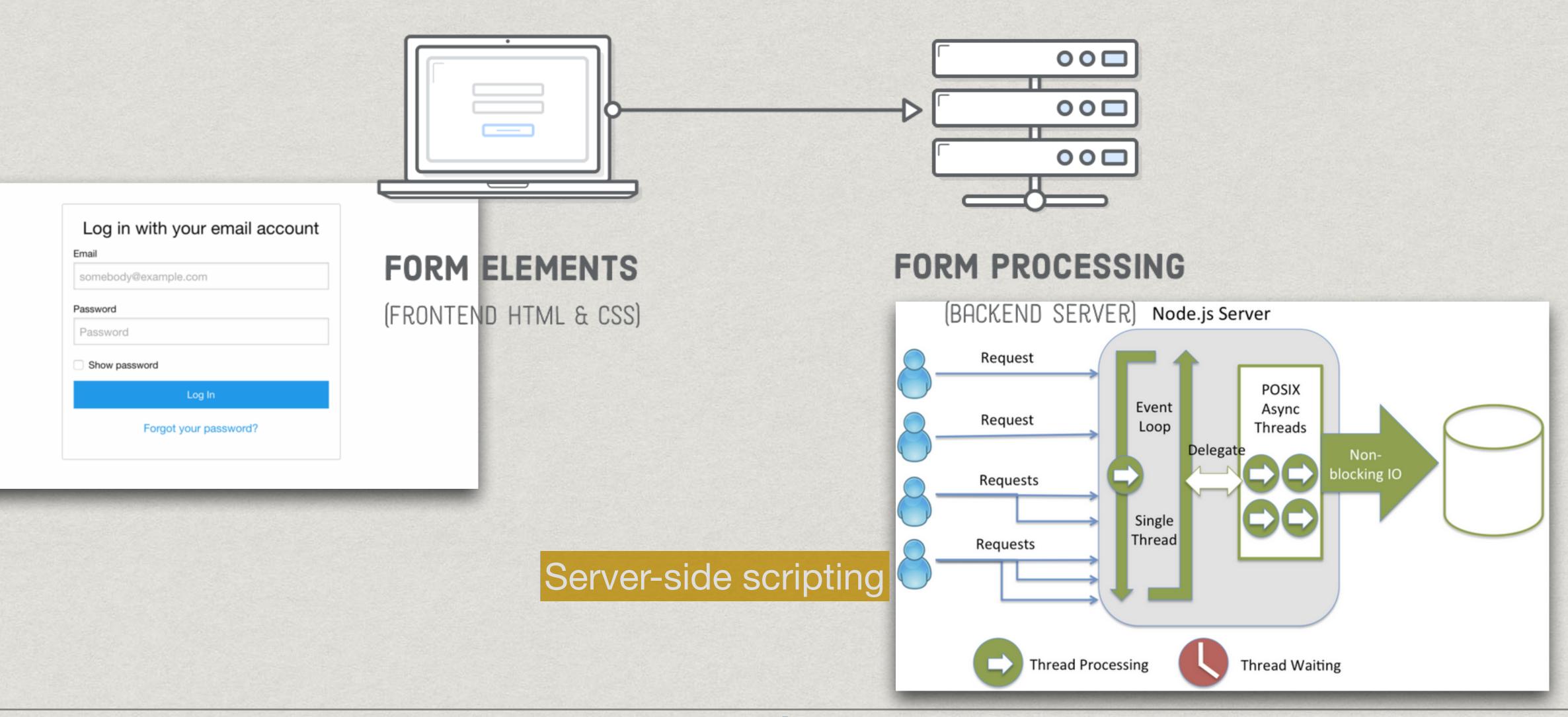


Responsive Web Design

- * One design fitting all screen sizes.
- * Content could be automatically re-arranged.



HTML Form Request and Handling

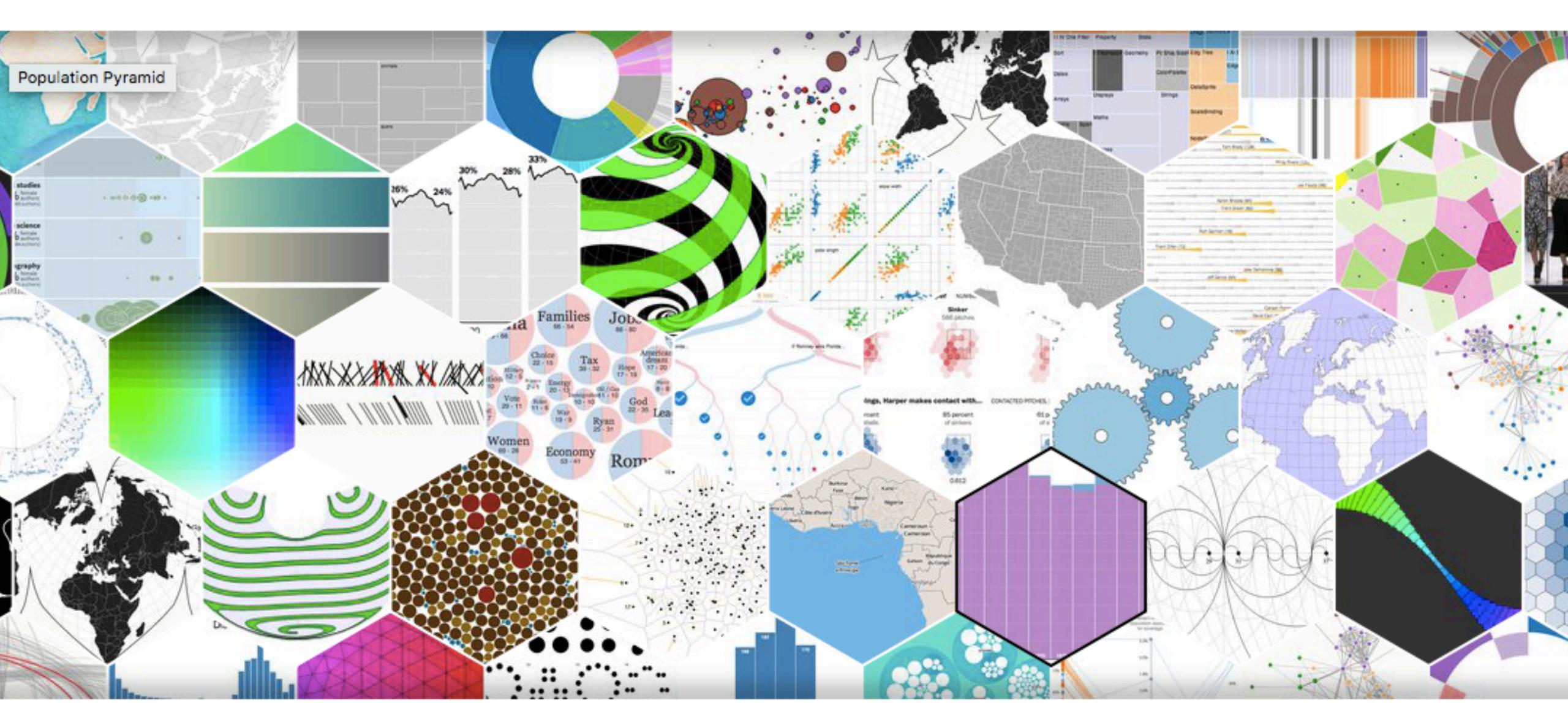


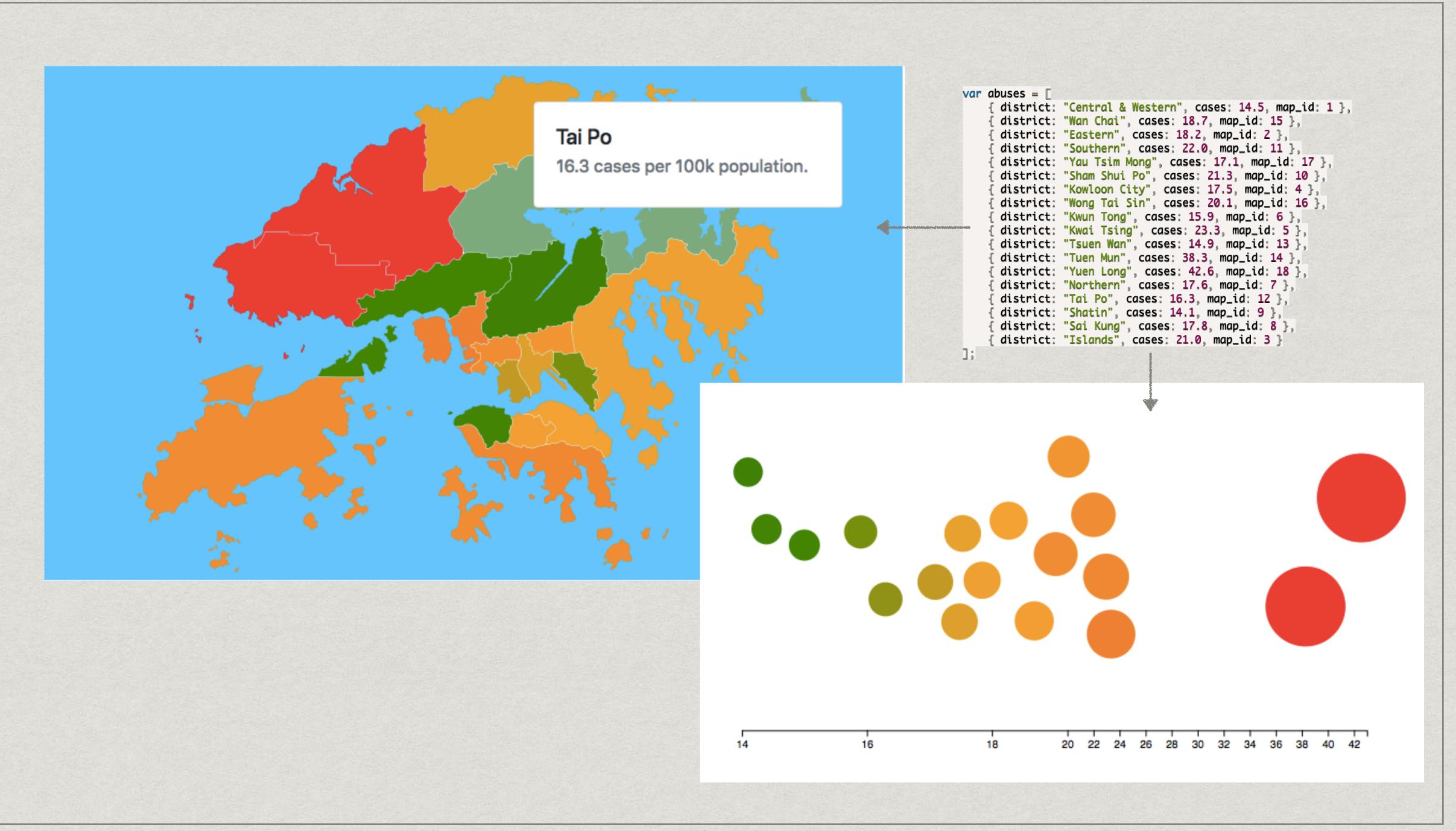
DATA VISUALIZATION



Data-Driven Documents

2D Data Visualization: https://d3js.org





3D Data Visualization

```
var treeCities = [
{ city: "Tel Aviv", country: "Israel", percentage: 17.5, lat: -32.0853, lng: 34.7818 },
 { city: "Boston", country: "Massachusetts", percentage: 18.2, lat: 22.3601, lng: 710589 },
 { city: "Miami", country: "Florida", percentage: 19.4, lat: -25.7%7% lng: -80 19
 { city: "Toronto", country: "Canada", percentage: 19.5, lat: -43.6532}
 { city: "Seattle", country: "Washington", percentage: 20, lat: -47
{ city: "Amsterdam", country: "Netherlands", percentage: 20.6, ]
{ city: "Geneva", country: "Switzerland", percentage: 21.4, la
 { city: "Frankfurt", country: "Germany", percentage: 21.5, la
{ city: "Sacramento", country: "California", percentage: 23.
 { city: "Johannesburg", country: "South Africa", percentage
                                                                         Miam
 { city: "Durban", country: "South Africa", percentage: 23.7
 { city: "Cambridge", country: "Massachusetts", percentage: ?
 { city: "Vancouver", country: "Canada", percentage: 25.9, ld
 { city: "Sydney", country: "Australia", percentage: 25.9, la
{ city: "Singapore", country: "Singapore", percentage: 29.3,
                            https://threejs.org
```

Assessment

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* You'll need 30% to pass

* Project

* 2 to 3 students per group

* Data Visualization Project.

Exam	40%
Project	30%
Assignments	20%
Labs	10%