

title: valuenex plannin context: valuenex author: Huxley Marvit date: 2021-11-27

#ref

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## 1 | valuenex!

### 1.0.1 | i need to get done:

- sliders, which
- export to video

parse the data calculate the intensity

- pass to shaders:
  - array of all `clusters`
    - \* that need to be
      - shown given time frame
      - softmaxed
    - \* including `cluster` objects with
      - x, y, intensity
- intensity per `cluster` is calculated as
  - num of `companies` in a given `cluster` that exists during a given time frame
  - do this by:
    - \* sorting arr of objects by date,
    - \* then  $O(n)$  counting sort
    - \* softmax
- arr of all companies sorted by date
  - how does this work??
  - can we just do counting sort cus we know upper and lower date bounds?
  - **Answer** we are just sorting by the publication date

regardless, i need to:

**get arr of companie objects** nownot

make ui for sliders

- which allow setting of start date, end date, and increases at a set speed

export to video

**have**

- parsing data

- initializing clusters
- finding intensities
- pass to shaders

#### **need**

- export to video
- sliders! (ui)
- stop when done (don't need)
- new softmax integration
- css!

now :: initialization array, done! now :: match increment of arr to increment of dates? now :: sliders! (not-ui)  
now :: passing to shaders

### **1.1 | part two**

rendering sprites, instead.

- need to find out:
  - can we render 10k sprites?
  - can we not have to render 10k things?
  - how does addition work with transparency?
  - how do we handle normalization?