

# IDEAS

## Sheet #1

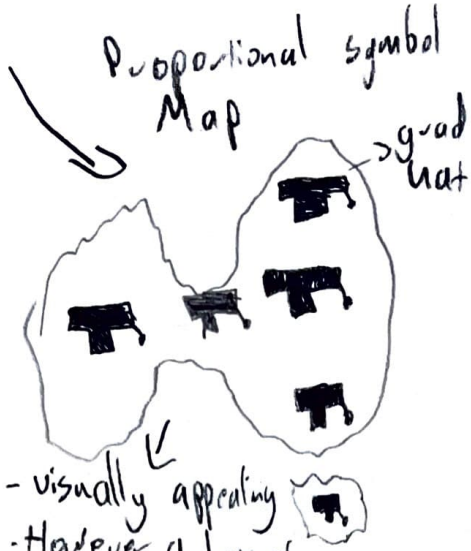
How to portray Education via map?



can show:  
- graduation %  
- education levels



shows:  
- amount of grads/PhDs  
- can see by clusters or dots



- visually appealing  
- Have a lot of white space

# FILTER

proportional symbol map is hard to read for similar quantities



effective for quantitative attributes  
- effectively see categories through grouped bar charts

# CATEGORIZE

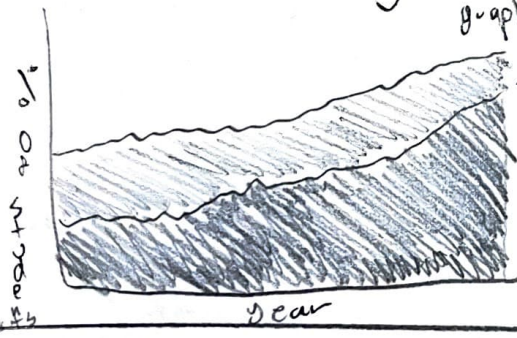
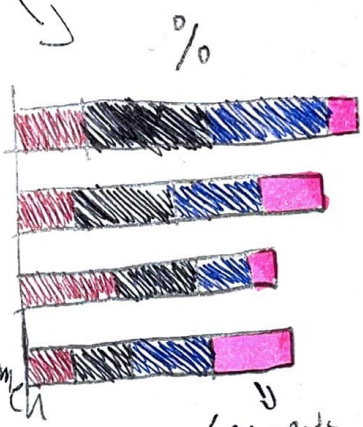
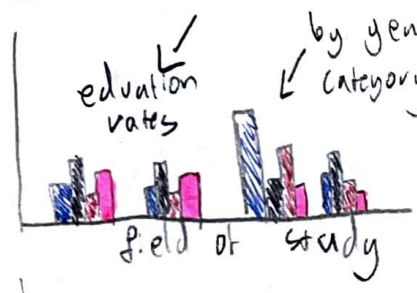
Demographic:

- Education study by gender
- Income by education level

Education levels:

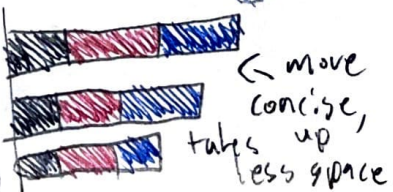
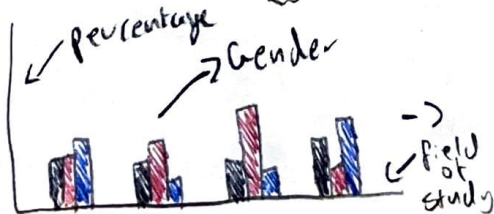
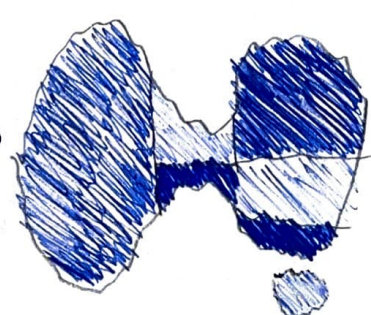
- Success rates
- Income level
- proportion of Aus to proportion of education levels

## Effective Accompanying charts



## COMBINE & REFINE

- Main idea is to tell a story
- Show what the results of education is



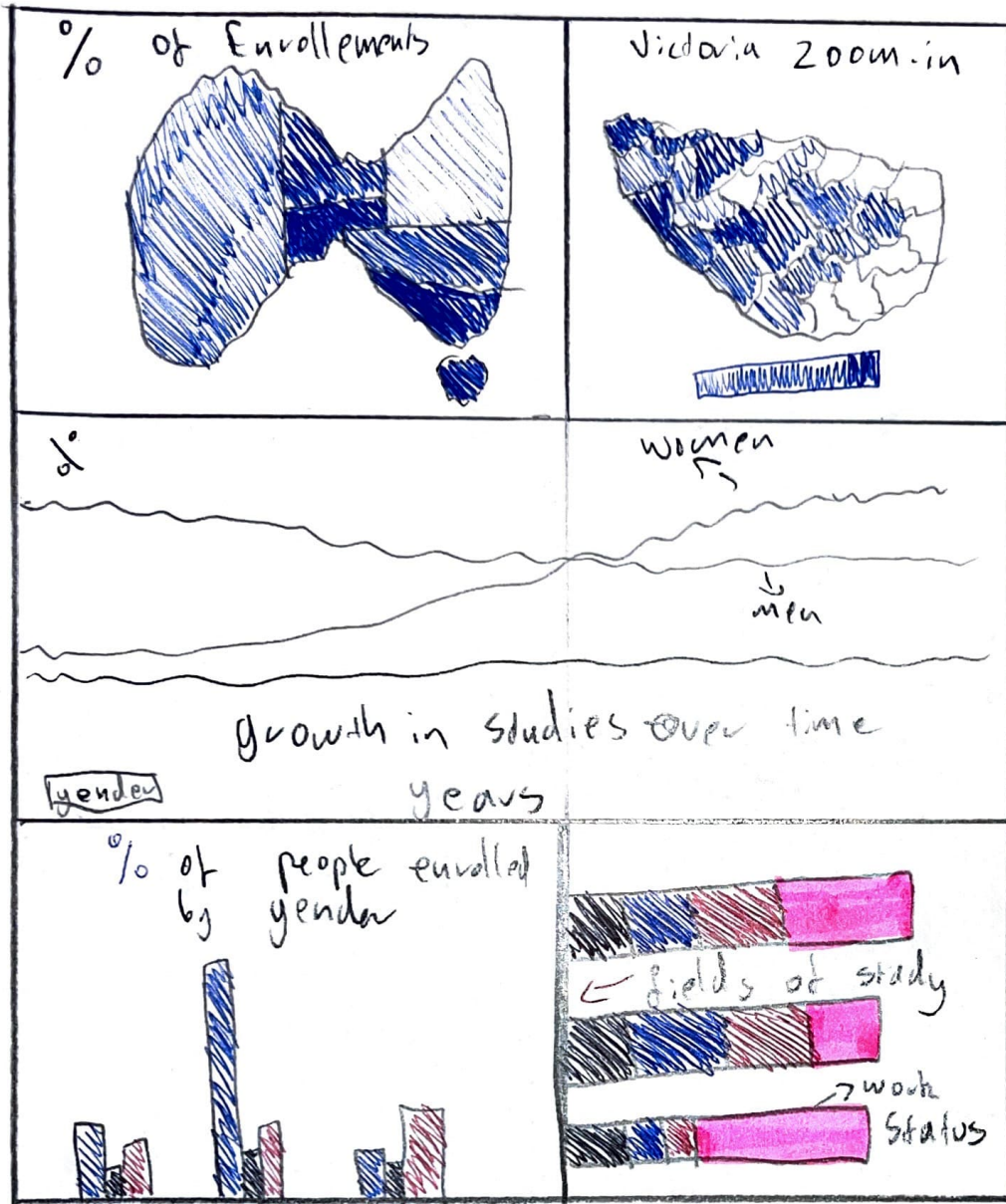
## QUESTION

- Which maps are more visually appealing?
- How can I clearly portray the stats?
- Any key info missing?



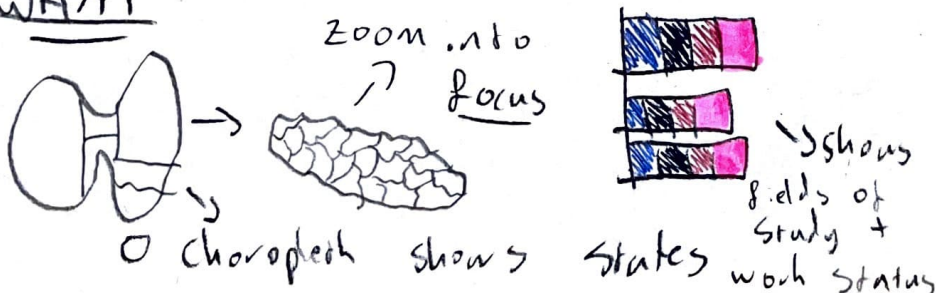
# LAYOUT

- Use of a traditional dashboard layout to show visualisations



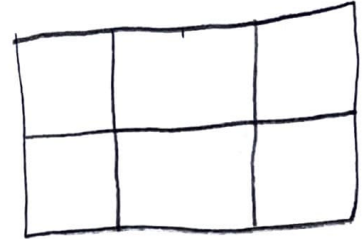
## FOCUS

- Main idea is to compare states, substates and demographics
- Want to see WHO is studying WHAT



Sheet # 2  
Dean Mascitti  
Education in Australia

## OPERATIONS



↓  
traditional dashboard view

- Map tool tips show quantitative attribute and state
- gender - drop down for map
- Ability to click to see the zoomed state of Vic

## DISCUSSIONS

Pros:

- good sight lines
- good mix of maps & focus

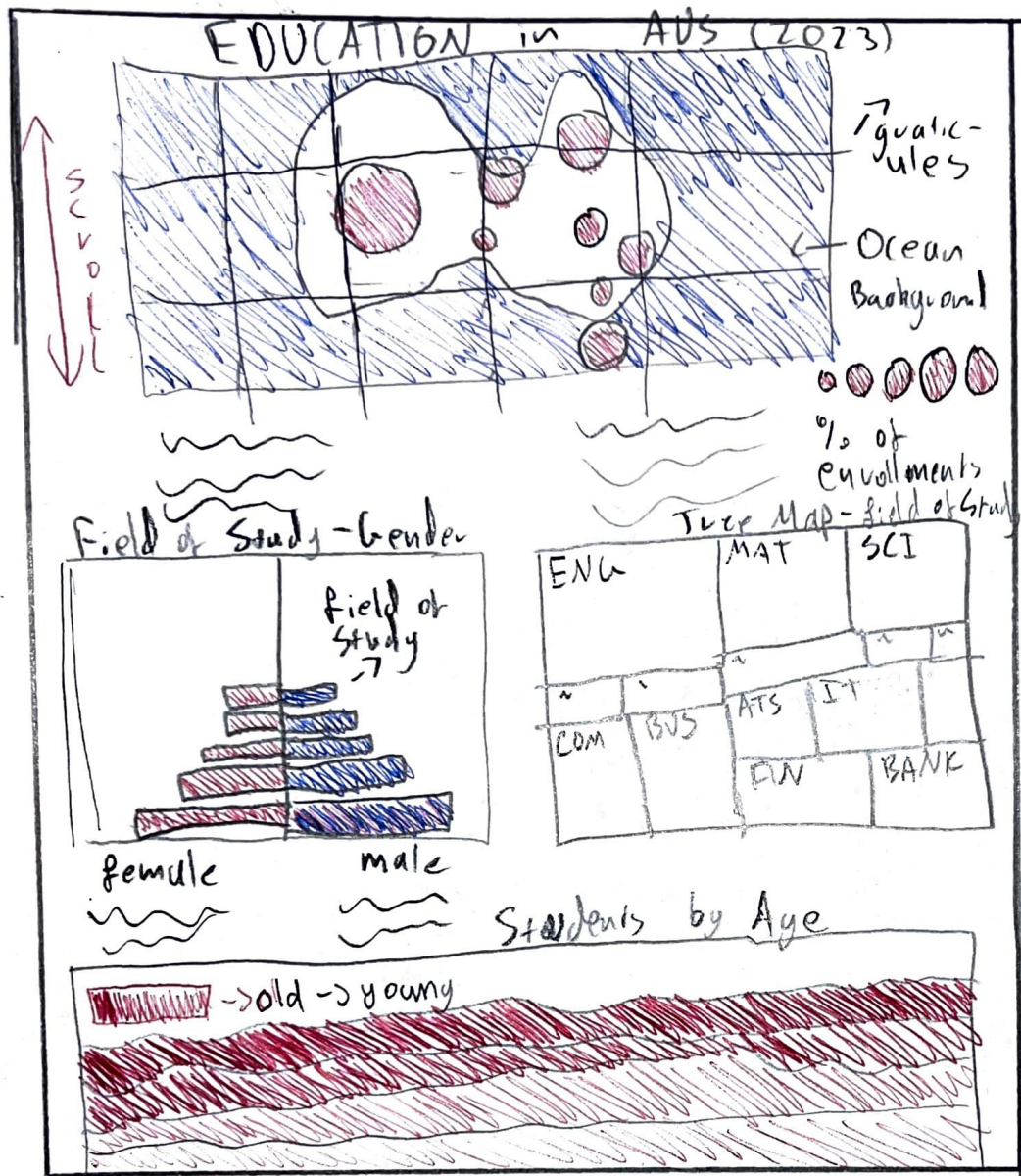
Cons:

- Lack of story telling
- could be more complete



# LAYOUT

- Use of a more webpage layout



Sheet #3

Dean Mascitti

Education in Australia

## OPERATIONS

- Tool tips for map:



quant:  
State:

- gender, drop down

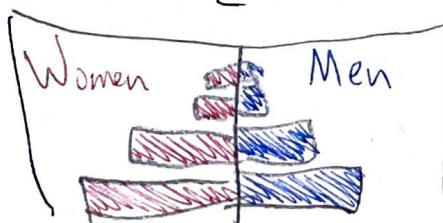
for the area chart to select gender

- Descriptions for each chart

- For bar chart can select age range to highlight

## FOCUS

- Main idea is to storytell through a scrollable page so the user knows where to look
- show fields of study between genders
- show enrollments by state



## DISCUSSIONS

### Pros

- good storytelling, scrollable
- complex idioms
- good interaction

### Cons

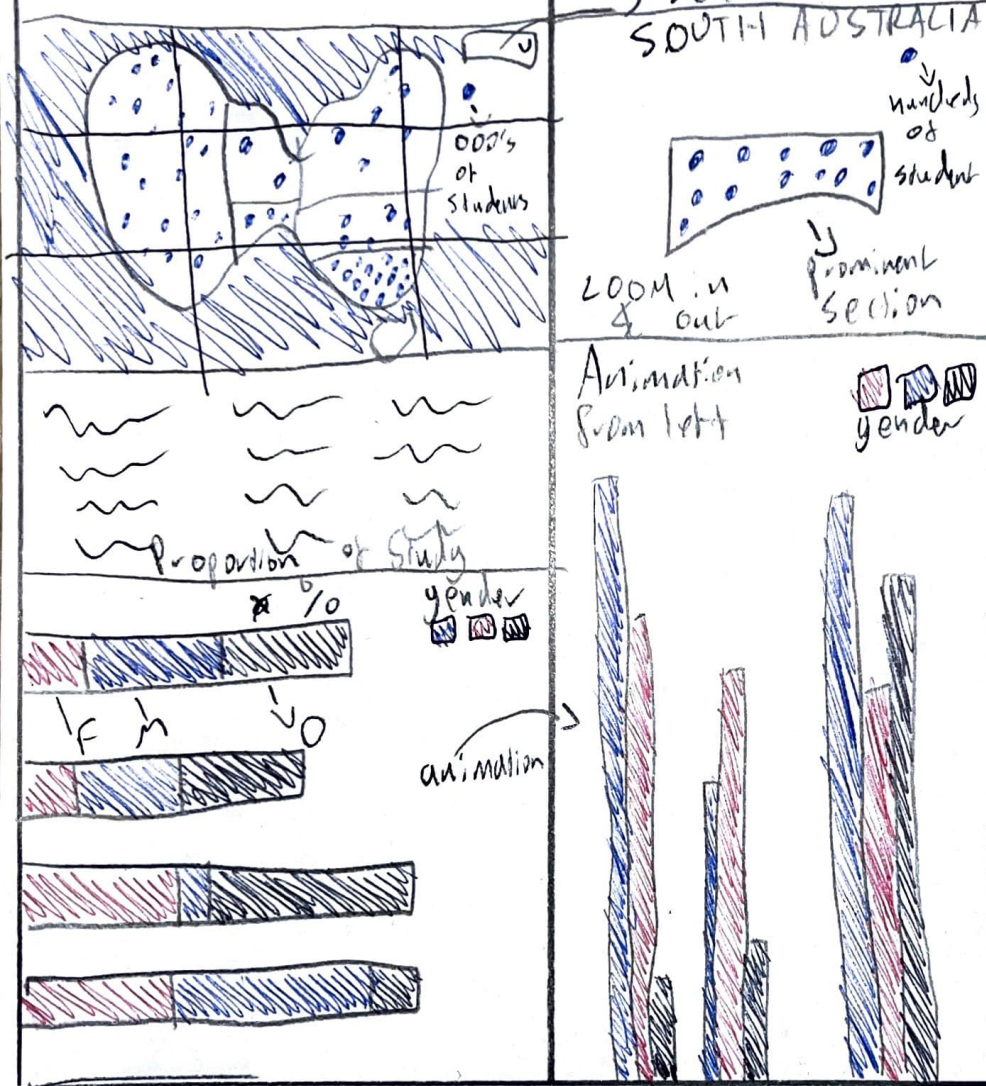
- Could be better sight lines
- Better Typography



## LAYOUT

- The point of this design is to layout side by side for clear sight-lines

# EDUCATION IN AUSTRALIA



Sheet #4

Dean Mascitti

# Education in Australia

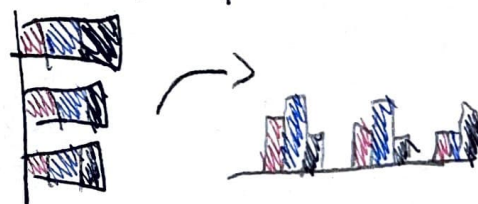
## OPERATIONS

- Zoom in and out of state:



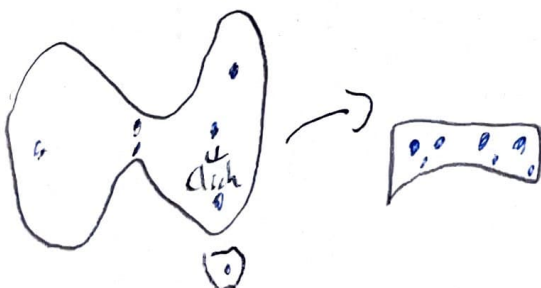
- Select state from country map  
↓  
Shows on separate map chart

- Animation from stacked bar chart to grouped bar chart



## FOCUS

- Main idea is to create an experience for the viewer



## DISCUSSIONS

Pros

- Very interactive
- Visually pleasing

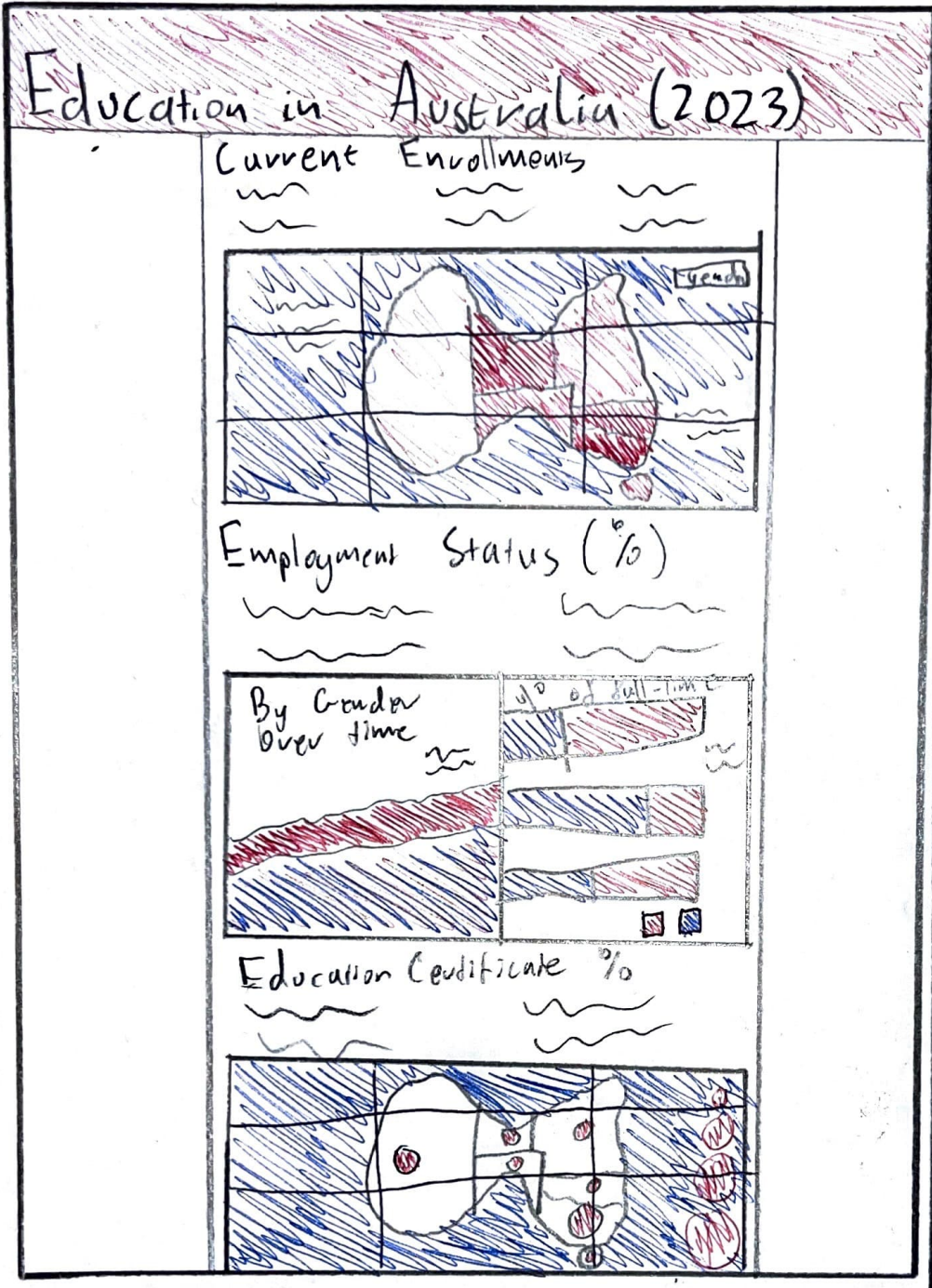
Long

- Not clear
- can be confusing



# LAYOUT

- Using a more "long" webpage design, so that structure & storytelling is effective



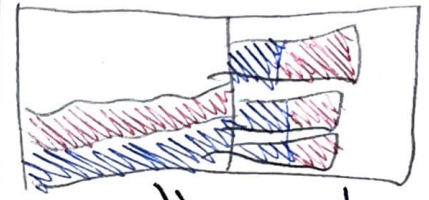
Sheet # 5

Dean Mascitti

Education in Australia

## OPERATIONS

gender → gender bar  
allows different choropleth for Map #1



→ interactive & join, so selecting 1 selects both.

- tooltips for all charts, so the user can view meta data on each point.

## FOCUS

- Main focus is to create a good UX through a scrollable page, so storytelling is evident

- (Consistent + Colour) →



→ choropleth and proportional symbol map are consistent and same format

## DETAIL

- Use .csv files for data  
- Clean data using excel and Python

- Estimated time 1 hour/char  
total = 5 + 2 → (html + CSS)  
= 7 hrs

- VegaLite will be used