

# Tutorial #2: Javascript and jQuery

CS374: Introduction to HCI

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# Team Formation

- Due today 11:59pm
- You **SHOULD** form a group of four
- If you have not yet formed a group of four, we'll give a chance
  - advertise your group, or
  - advertise yourself
- Please make it at the end of tutorial and submit the form

# Summary of Previous Tutorial

- HTML for presenting structure of a webpage
- CSS for presenting contents
- Web browsers for interpreting and rendering web pages
- **Separation of presentation and content**

# The gospel (according to Zeldman)

Behaviour

## Tutorial #2

JS

Presentation

CSS

## Tutorial #1

Structure

HTML

# Learning Objective

Student will be able to build the following website on [codepen.io](https://codepen.io)

**Which course do you prefer ?**

CS492: Crowdsourcing

CS374: Introduction to HCI

add this option

Idea	Count
CS492: Crowdsourcing	2
CS374: Introduction to HCI	1

**Try it !**

<http://codepen.io/hgshin/pen/OpmQdZ/>

# Javascript

- A language to make a web site **do something**
- Simply think a web browser execute the javascript code

# Example

- Compute  $1 + \dots + n$  and print it on [codepen.io](https://codepen.io)



# Learning Objective

Which action should we implement ?

**Which course do you prefer ?**

CS492: Crowdsourcing

CS374: Introduction to HCI

Idea	Count
CS492: Crowdsourcing	2
CS374: Introduction to HCI	1

# Learning Objective

Which action should we implement ?

**Which course do you prefer ?**

1. hover

CS492: Crowdsourcing

CS374: Introduction to HCI

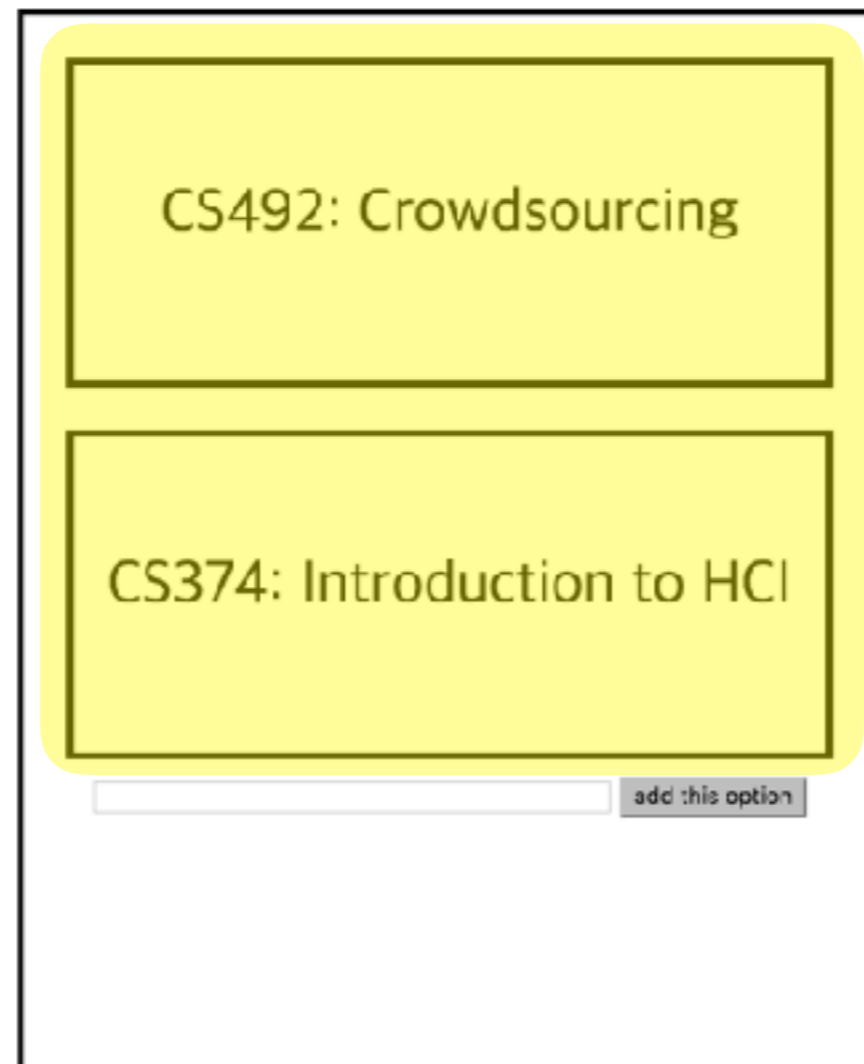
Idea	Count
CS492: Crowdsourcing	2
CS374: Introduction to HCI	1

# Learning Objective

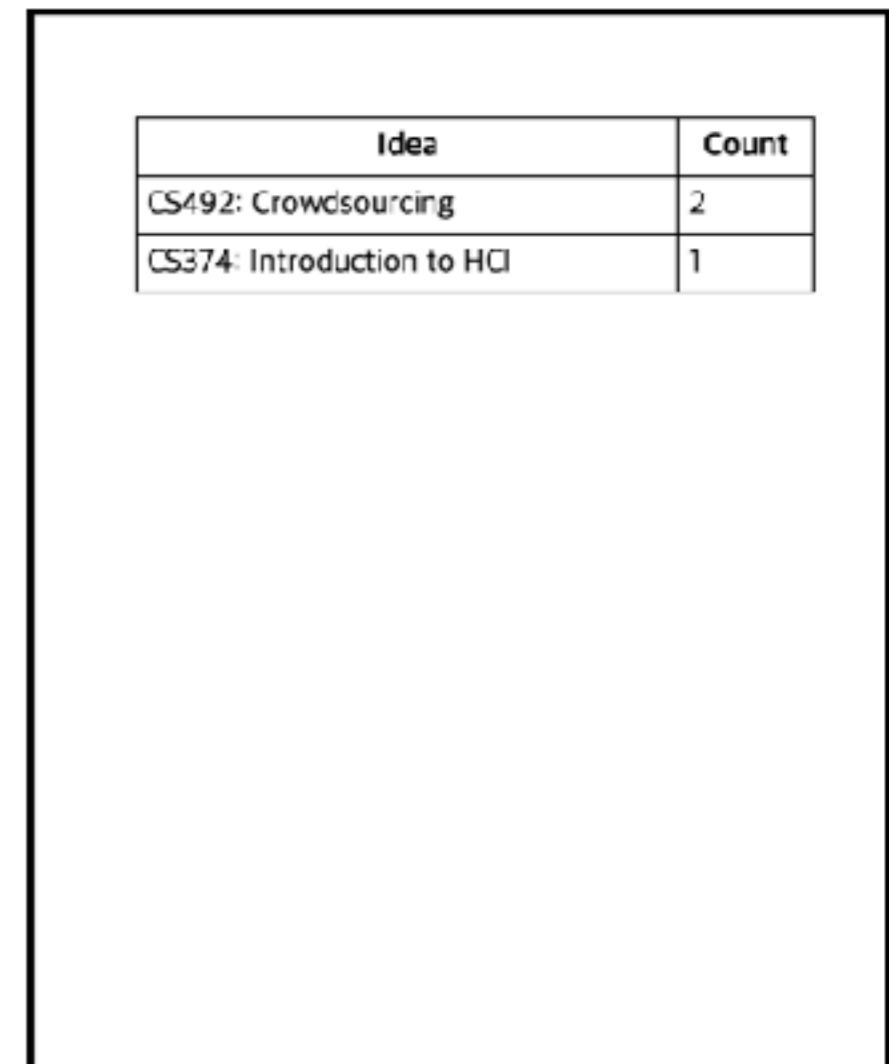
Which action should we implement ?

**Which course do you prefer ?**

1. hover
2. click & counting



A form with two yellow buttons. The top button is labeled "CS492: Crowdsourcing" and the bottom button is labeled "CS374: Introduction to HCI". Below the buttons is a text input field and a button labeled "add this option".



Idea	Count
CS492: Crowdsourcing	2
CS374: Introduction to HCI	1

# Learning Objective

Which action should we implement ?

**Which course do you prefer ?**

1. hover
2. click & counting
3. add an option

CS492: Crowdsourcing

CS374: Introduction to HCI

Idea	Count
CS492: Crowdsourcing	2
CS374: Introduction to HCI	1

# Learning Objective

Which action should we implement ?

Which course do you prefer ?

1. hover
2. click & counting
3. add an option
4. sorting
5. presenting on the table

CS492: Crowdsourcing

CS374: Introduction to HCI

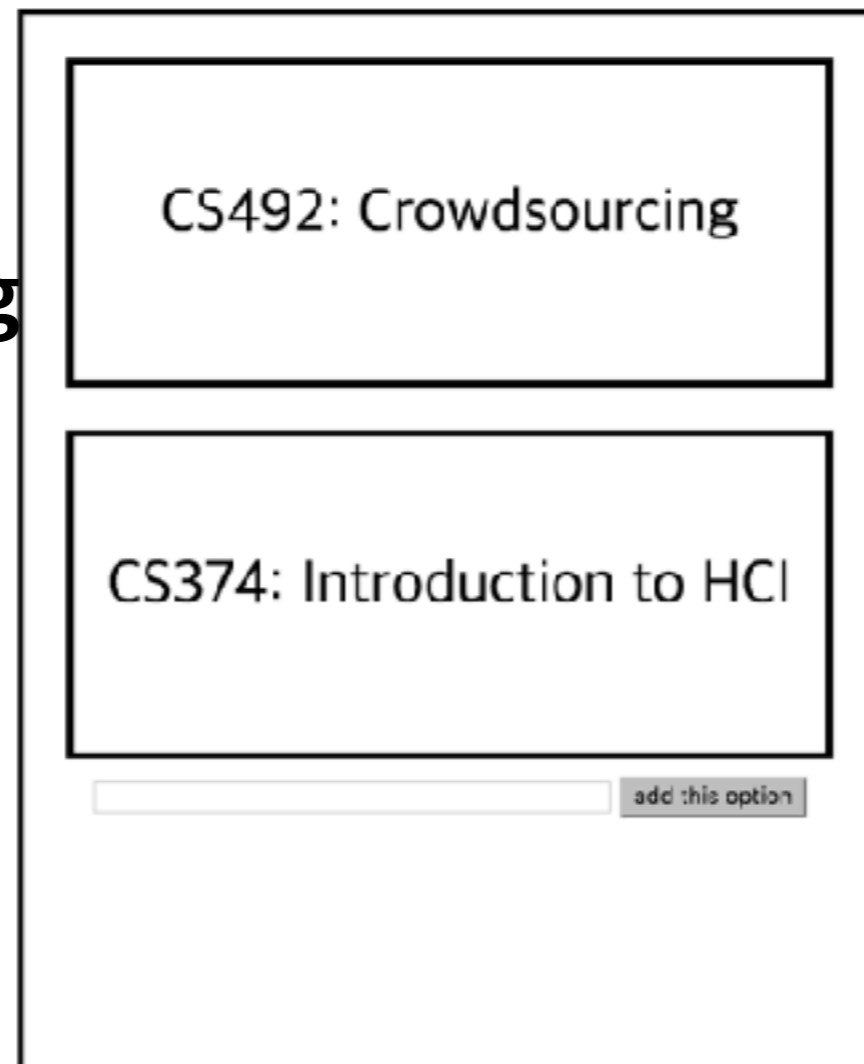
Idea	Count
CS492: Crowdsourcing	2
CS374: Introduction to HCI	1

# Learning Objective

Which action should we implement ?

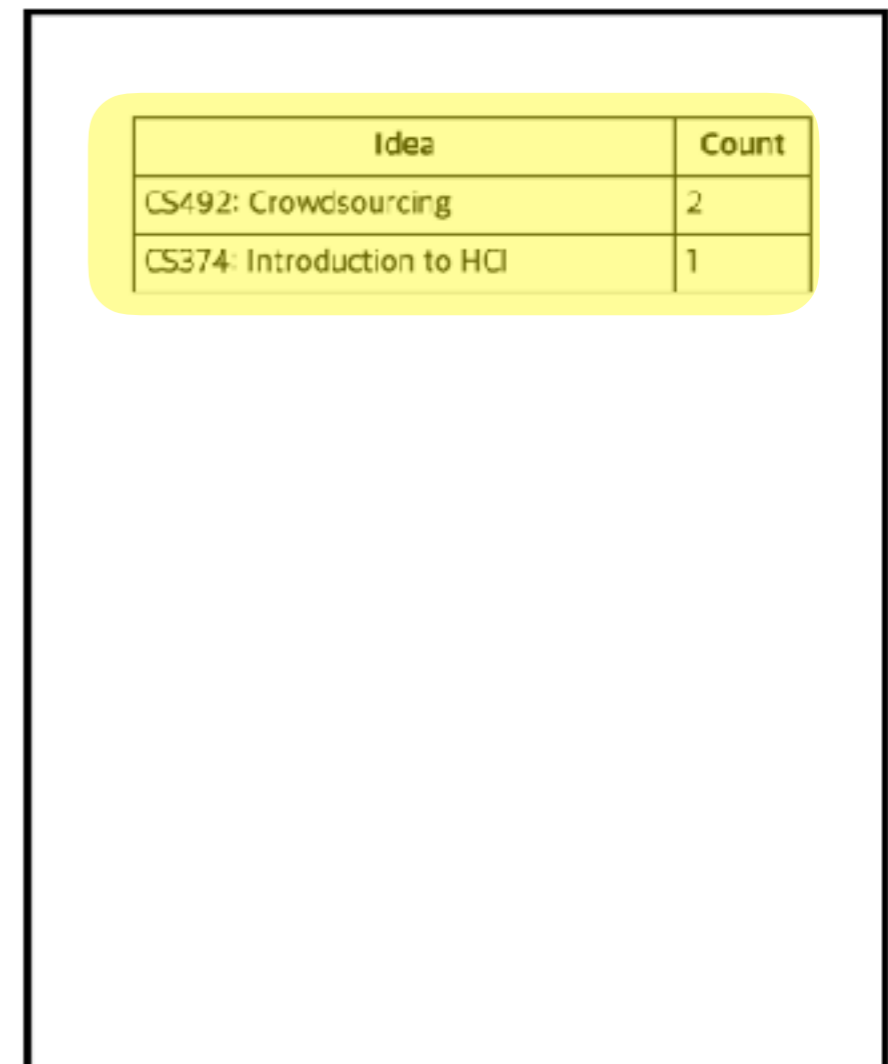
Which course do you prefer ?

1. hover
2. click & counting
3. add an option
4. sorting
5. presenting on the table



CS492: Crowdsourcing

CS374: Introduction to HCI



Idea	Count
CS492: Crowdsourcing	2
CS374: Introduction to HCI	1

# Event

- Events happens whenever interesting things take place
  - Click / Mouse move
  - Typing keyboard
  - User-generated event

# Example

- Raise an alert when a user clicks a button



# Learning Objective

Which course do you prefer ?

1. hover
2. click & counting
3. add an option
4. sorting
5. presenting on the table

CS492: Crowdsourcing

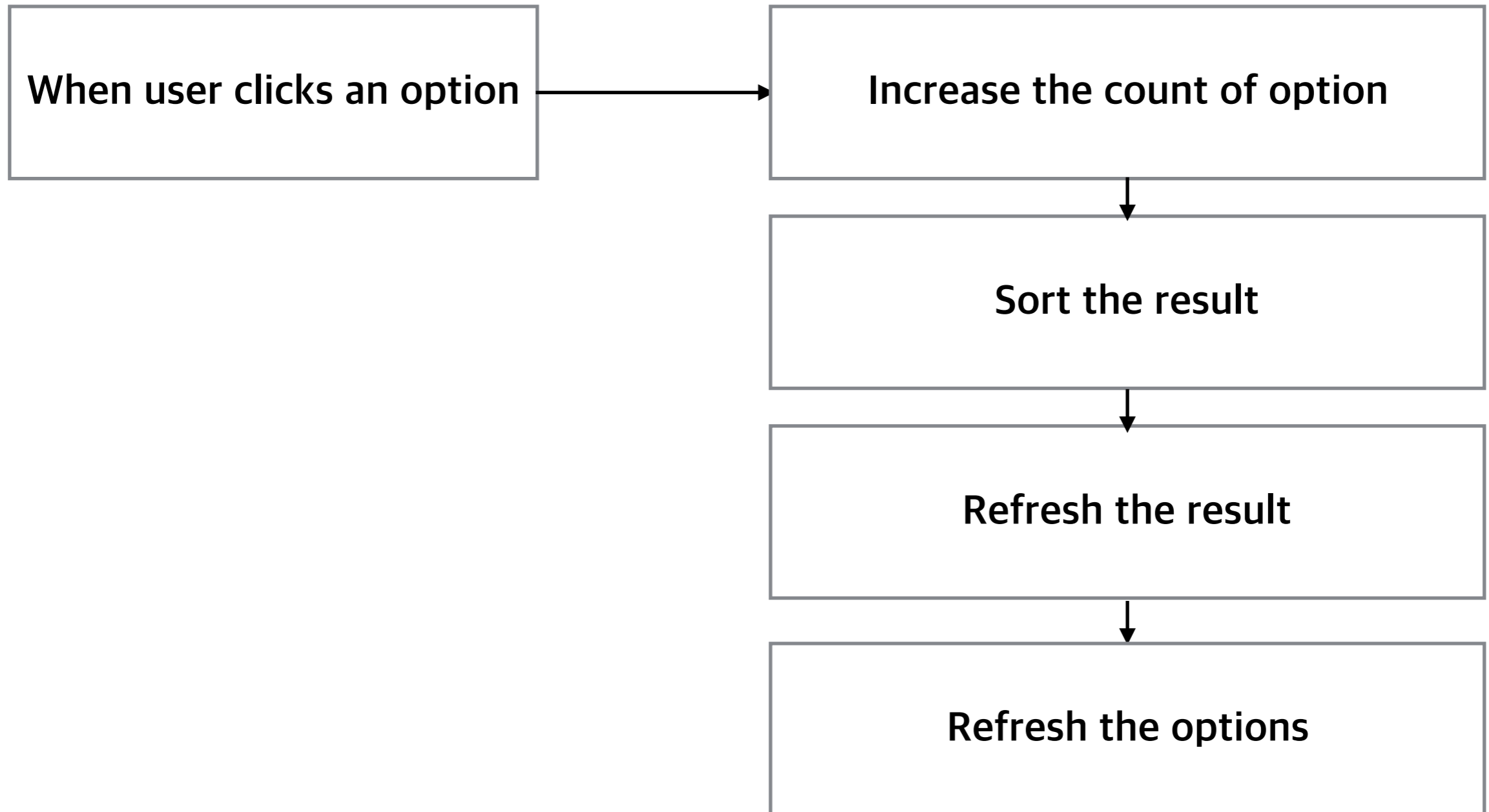
CS374: Introduction to HCI

Idea	Count
CS492: Crowdsourcing	2
CS374: Introduction to HCI	1

# Algorithm

**When user clicks an option**

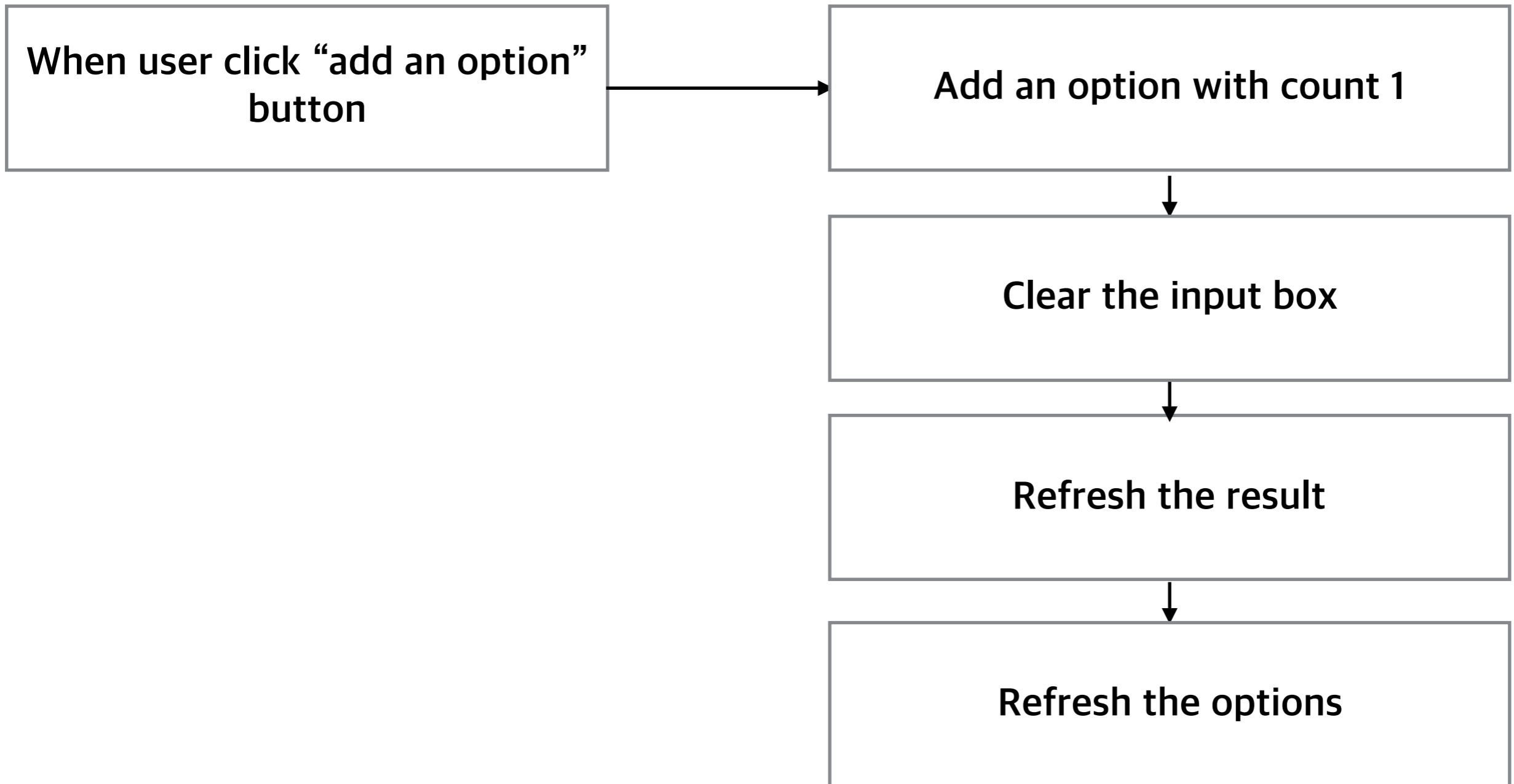
# Algorithm



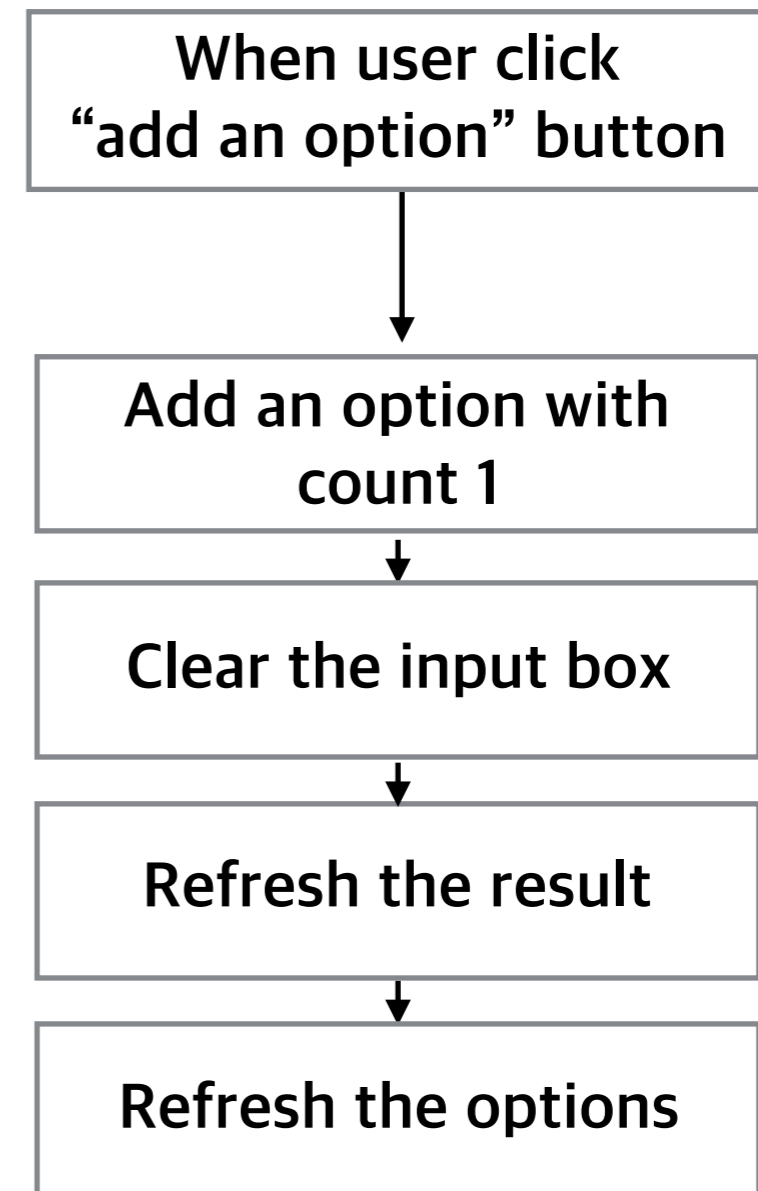
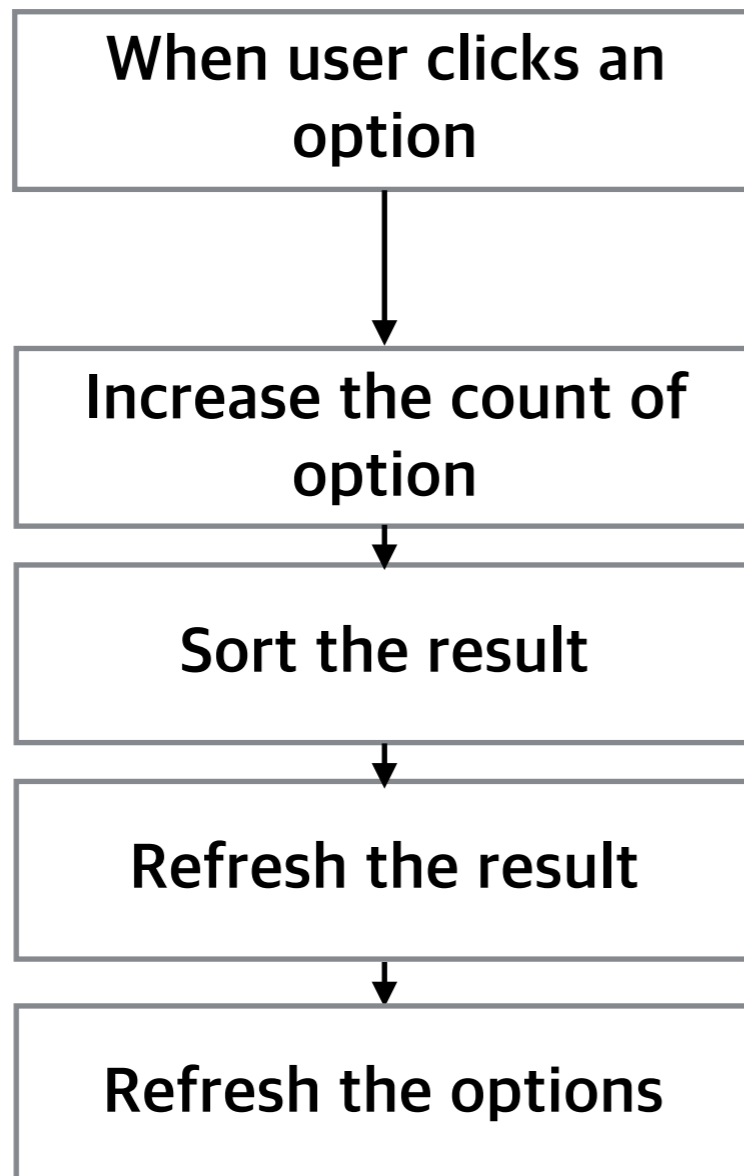
# Algorithm

When user click “add an option”  
button

# Algorithm



# Summary of Algorithm



**Let's implement it !**

**<http://shoutkey.com/breeze>**

# jQuery

- jQuery is one of the most widely used javascript library
- Philosophy : write less, do more





# Let's revise the code with jQuery

See whether you really can do more with less code

# Summary

- Javascript
  - A language to make a web site do something
  - DOM provides the way to access HTML elements
    - an HTML element is handled as an object in javascript
- jQuery
  - One of the most widely used javascript library
- **Google it whenever you want to do something !**

**Thank you for listening :D**

Questions are welcomed

Hyungyu Shin