

CSC302 Flash cards

Group 1

People have bad memory, need app to remember

Students might want to memorize:

- Learn languages
- Learn cities / places
- States / Presidents
- Key terms in classes
- Math formulas
- Famous people



Teachers might want to:

- Create lists of things for students to study

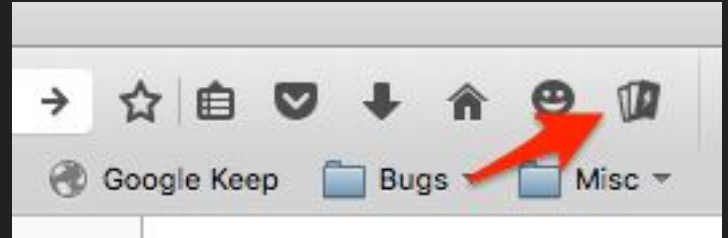
Flashcards

- Most of the time we want to memorize things we come across on the web
- Making flashcards or exporting to flash-card apps can be time consuming



Solution - Firefox plugin

- Highlight text on a page
- Right click to bring out context menu
- Click “Create Flashcard” to create a new flashcard along with metadata about where the text was from.



zu einem Schwerkranken
em Hof herum. Als Rosa
rt zwei kräftige Pferde u
an den Wagen. Der Arz
nsturm des Mannes zer

Live Demo!

Architecture - Overall Design

- We kept things very simple
- We created panels using plain HTML and javascript, with bootstrap for some layout and styling requirements
- We have a right-click context menu where highlighted text on a page can be added to a new flashcard

Architecture - Panels

- A number of different panels:
 - Create Flashcard
 - Browse Flashcards
 - Test Knowledge
 - Manage Categories
- Each panel has its own HTML and javascript sources
- Panels communicate by passing messages
 - Using `self.port.emit()`

Architecture - Storage

- Objects are stored in Firefox's Simple Storage
 - Objects are saved to the user's profile folder
 - Objects persist across browser restarts
- Flashcards:
 - Array of JSON objects
 - { 'front': 'Canada',
 'back': 'Ottawa',
 'category': 'Capitals' }
- Categories:
 - Simply an array of Strings

Future enhancements

- Export / Import
- Synchronise across browsers
- (we implemented)
- Better management of cards, e.g some kind of list view.