

Mavo: Creating Interactive Data-Driven Web Applications by Authoring HTML

- Many people have information they want to manage and share.
- Today, creating a web application for managing data requires a lot of knowledge and experience. We want to change that.
- Mavo is an HTML language extension that adds persistence, editing, and data transformation capabilities to HTML

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http://mavo.io

Example: To-Do list



```
<body mv-storage="https://www.dropbox.com/.../todo.txt">
  My tasks: [count(done)] done, [count(task)] total

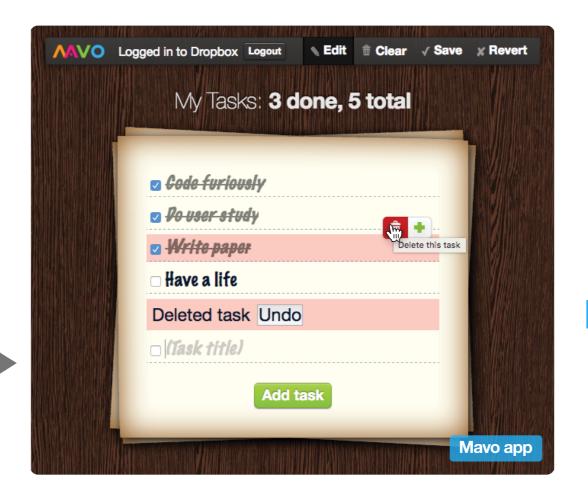
     li property="task" mv-multiple>
          <input type="checkbox" property="done" />
          <span property="taskTitle">Do stuff</span>

      /li>

    </body>

Mavo HTML
```

Mavo prototypes a future for HTML and the web browser itself, where data interaction becomes as much a basic part of web authoring as paragraphs and colors.



2 user studies

Can novice Web authors create applications with Mavo?

STRUCTURED STUDY

17

100% on CRUD tasks

SUCCESS RATE

1 of 2 apps, HTML provide

97% on basic expressions

10-12 tasks, increasing difficulty

75% on complex expressions

FREESTYLE STUDY

participants making a Mavo app (contact manager) with their own HTML

SUCCESS RATE

100%
All participants were able to convert their static HTML to a fully functional contact manager.