# A Task-Focused Approach to Support Sharing and Interruption Recovery in Web Browsers

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## Task-Based Browsing

Tab4 is a prototype browser interface designed to better support users whom regularly use browsers for myriad tasks. Specifically, the Tab4 browser interface enables the following features related to tasks and their artifacts (i.e. tabs, bookmarks and annotations)

- Webpages can be grouped into tasks, providing a unified target for resumption
- Tasks and pages can be annotated, supporting resumption after long intervals
- Tasks can be shared through a novel web-service easily.

### Design Requirements

Through a series of interviews to explore users' browsing habits, we generated a set of five design requirements that aid the development of Tab4:

- R1. Support the grouping of webpages into tasks
- R2. Facilitate task switching and resumption
- R3. Include navigation artifacts (i.e. bookmarks) as part of a task
- R4. Allow annotation of webpages and tasks
- R5. Ease sharing of pages and tasks between users

#### Evaluation

Our experiment evalutes the suitability of the Tab4 browser to support task switching in a high-pressure, interruption-ridden settings. 8 participants were asked to use our prototype for two 15-minute sessions to perform specific tasks while getting interruped occasionally by the experimenter.

All subjects indicated task-based browsing is useful, making it easier to complete the assigned tasks, and that they would use task-based browsing if avaliable in their primary browser.

#### **Future Research Directions**

We identified the following areas which are worthy of further investigations:

- including browsing history as part of the task artifacts
- long-term, real-world usage of a functionally complete system, with logging and critical incident interviews
- incorporate our interface as a plug-in to existing browsers, such as Mozilla Firefox or Google Chrome

