

BUTTERFLYNET: MOBILE CAPTURE AND ACCESS FOR BIOLOGISTS

Ron B. Yeh, Boyko Kakaradov, Scott Klemmer
 {ronyeh, boyko, srk}@cs.stanford.edu

DESCRIPTION

ButterflyNet provides efficient techniques for biologists to search and share digitized paper notes, photos, audio/video, sensor net data, and more.

NEED FINDING

To become fluent in the language of biology research, we studied biologists from Stanford, the California Academy of Sciences, and Jasper Ridge Biological Preserve.



In the lab



In the field



In class



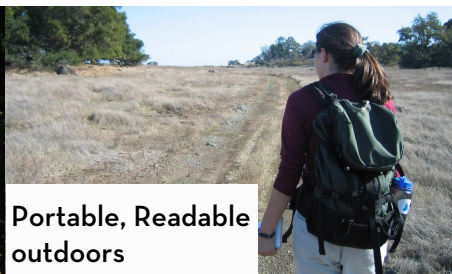
← Pilot Deployment of our Technology

Eight Days in Los Tuxtlas Rainforest, Mexico
 Nine students, two TAs, one Professor

PAPER VS. DIGITAL

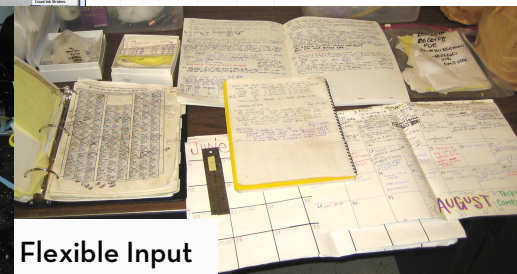
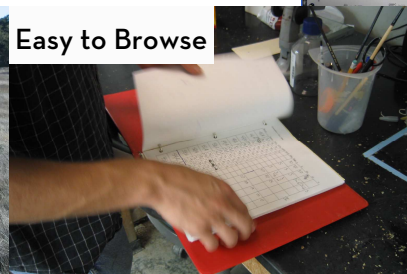
Why do biologists use paper notebooks?

Infinite Battery



Portable, Readable outdoors

Easy to Browse



Flexible Input

Robust

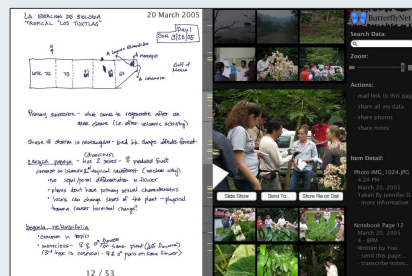
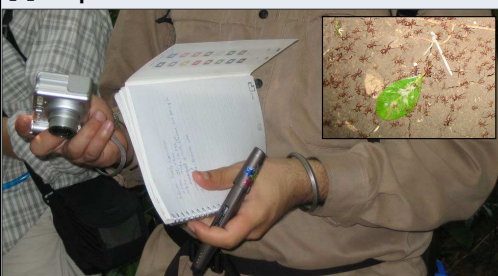


BUTTERFLYNET USAGE SCENARIO

Roger and Karen, who study Leafcutter Ants in the rainforest, share notes and photos with colleagues working in the lab on campus.

[3] View a colleague's research
 Shared content is stored at a central server.

[1] Capture Photos & Notes



[2] Search/Browse

ButterflyNet employs side-by-side views of temporally correlated notes and photographs for efficient browsing and searching.

We plan to integrate audio, video, sensor net data, and GPS into future implementations.

