Empty Space Mapping
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Problem
- During disaster, up-to-date map is critical and currently there is no simple tool for volunteers/people who are affected by disaster to update the map.

Solution Idea
- Use Local Ground as a central collection site to upload map
- Easy collection as paper and pencil is all volunteers need to map.
- Integrate OSM to Local Ground to allow on-site volunteers to just upload what they mapped and let the remote-site volunteers to digitize it. And share as quickly as possible.

Related Work
- Local Ground has an easy way to map
- Walking Paper has similar but shares only via OSM
- OSM requires GPS or Mobile apps to collect data
- GoogleMaps takes long to update for disaster

Field Work
- Tapan Parikh, Sarah Van Wart

Architecture and Prototype

ON-SITE VOLUNTEERS
1. PRINT A PAPER MAP OR USE MOBILE APP
2. EDIT MAP BY HAND
3. Take a picture of hand-annotated map and upload it to LG

OFF-SITE VOLUNTEERS
4. SELECT THE UPLOADED MAP
5. EDIT THE MAP USING ONLINE EDITOR
6. PUBLICIZE YOUR MAP OR SHARE WITH FRIENDS

Spring Quarter Timeline
- WEEK 1: Understanding LG source code.
- WEEK 2: Learning Potlatch and OSM API.
- WEEK 3: Plan customization of Potlatch Editor.
- WEEK 4: Implement the customization of online editor.
- WEEK 5, 6: Integrate the customized online editor to LG website.
- WEEK 7: Test the reliability of the integration. User review.
- WEEK 8, 9: Explore the possibility of data collection through mobile phone.
- WEEK 10: GO LIVE!