PathMarker

The lost always leave a trail
Features

- Swappable 3oz spray paint can
- Simple shoe clip
- Sprayed marker
Initial Motivation - Search and Rescue

Faster searching process → less risk
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Faster searching process $\rightarrow$ less risk

Automatically place markers $\rightarrow$ faster process?
Forests are a common search and rescue location

Dense foliage makes ground unreadable
Hiking and Backpacking

Open trails are far more visible
Motivation and Market

- 150 Deaths per year in U.S. national parks
- 5k+ SARs in U.S. national parks (16 year average)
- $4.5M Spent on these park SARs annually
Feasibility Test

\[ \approx 1k \]
Marks per 3oz can

1 mark
Per 30 steps (60 ft)

\[ \approx 30k \]
steps per day hiking
Going Forward

- Talk to more hikers, backpackers, and expedition leaders
- Develop intermittent actuation system in order to survive a full hike