Personal Activity Trackers are providing us with unprecedented detail and insight on our everyday activities.

Effective interpretation of this data can be challenging, and is compounded due to issues such as false readings and missing data.

We performed a preliminary survey to understand user perceptions on this topic, finding that users desire the ability to annotate, retroactively repair, and compare their data.

Based on the insights from this survey, we designed a direct-manipulation interface permitting the consolidated annotation and revision of activity data from multiple devices. A pilot study of this interface found that users understood readily how to use the features offered, and valued the ability to edit, yet preserve the provenance of their data.