Motivation

- Software is built in collaboration, but developers spend most of their time in isolation.
- The more parallel work, the higher the incidence of conflicts.
- Conflicts due to overlapping changes cannot be resolved with available differencing/merging tools.
- Inconsistencies are typically not detected by configuration management systems.

Emerging Design

- Up-to-date abstraction of the code as it exists in the developers’ workspaces.
- Changes highlighted in the design.
- Awareness of changes that may interfere with those in a developer’s workspace.
- Snapshot of design in processes where there typically is none (e.g., agile development processes).
- Helps detect design divergence.

The Vision: Emerging Design

- Plan to turn emerging design into an “active coordination portal”.
- Explore other kinds of coordination information that developers need.
- Experiment with other kinds of interaction mechanisms to aid coordination.
- Plan to make Emerging Design view scalable.
- Explore filtering techniques.

Future Work