Panoramic View of Large-scale Activity Data

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Introduction

Our challenge is to help understand the activities in a large-scale organization such as a big company. To determine unknown characteristics, a wide-ranging observation of activities is essential, and therefore some panoramic view of activities should be useful. Our technical goal is to develop a panoramic view of activities to help users understand them. We adapted tickets of the issue tracking system (ITS) as activity target data.

Status	New
Assigned to	(None)

Status	Assigned	2/04/09
Assigned to	Seiya	

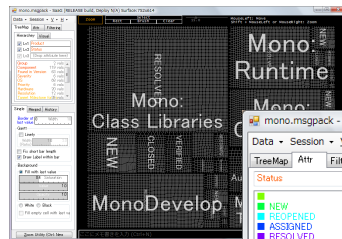| Status	Closed	2/04/10
Assigned to	Seiya	
Update	2012/04/15	

A ticket of ITS

Our Approach

The set of tickets comprises a hierarchical structure as a global structure and every ticket has a temporal structure as a local structure. Our problem is how to combine a representation of the global structure with a representation of the local structures.

Gantt chart **Polyline chart**
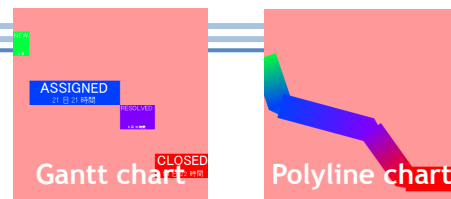
To express the time change of attribute values of tickets, we implemented two types of charts: (1) A Gantt chart is a widely used chart to express the progress of projects. (2) A polyline chart is a variation of a Gantt chart. It uses polygonal lines instead of horizontal bars.

Representation of Local Structures

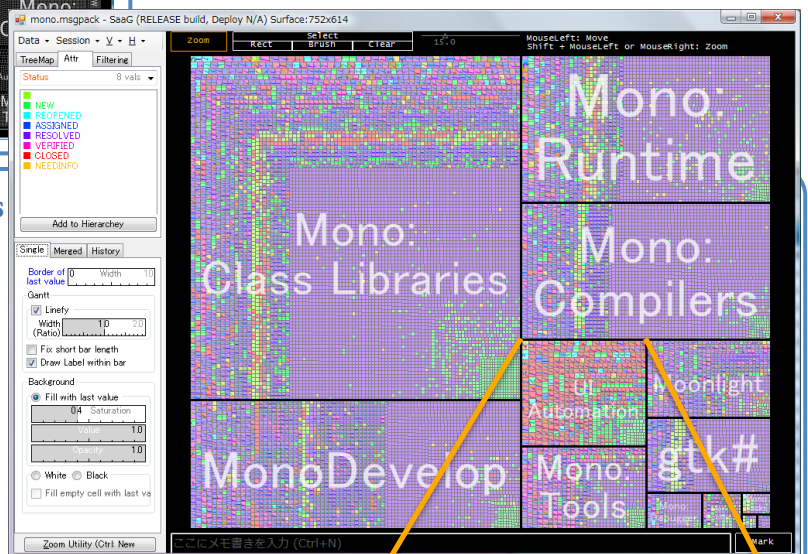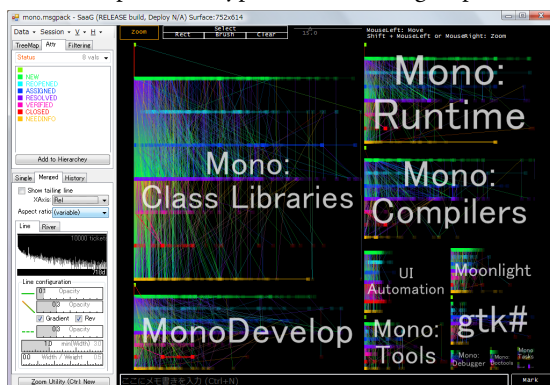### Representation of Global Structure

We adapted Treemap to express the global structure of tickets. A rectangular area is assigned to a ticket or a group of tickets.
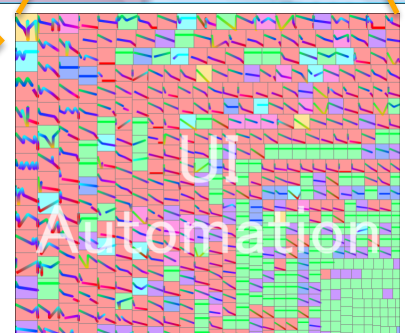

Representation of a Group of Tickets

We developed three types of modes for groups:

Overlapping Mode
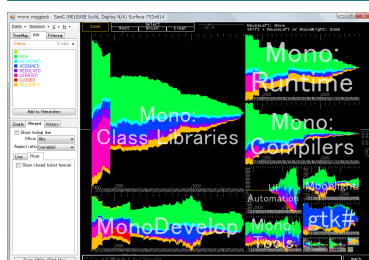
Stacking Mode

Tiling Mode

A rectangle is assigned to each ticket. A ticket chart is drawn in the rectangular area with a background color expressing the current status of the ticket.