Collaborative Modeling
for DSMLs in Papyrus
with EMF Compare

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Collaboration on models is essential

- Models become large
- Teams of developers need to collaborate on models
- Teams need to be able to work in isolation and integrate their work later
- Users need to understand what was changed and how
Example of basic collaboration workflow
Example of basic collaboration workflow

1. Clone
   - master

2. Clone
   - master

3. Clone
   - master
Example of basic collaboration workflow

1. Create branch, commit to branch
   - Master
   - Topic A

2. Create branch, commit to branch
   - Master
   - Topic B
Example of basic collaboration workflow

- merge into master
  - master
  - topicA

- master
  - topicB
Example of basic collaboration workflow
Example of basic collaboration workflow

- Pull from master
- Pull from master
- Pull from master
Example of basic collaboration workflow

merge into master

merge into master

EMF Compare
Comparing Models without EMFCompare
Comparing Models with EMF Compare
Comparing Models with EMF Compare
EMF Compare integrates with Papyrus

- **Customization for UML**
  - UML Profile support
    - Stereotypes
    - Profiles
  - Support for the other specifics of UML
    - Associations, Opaque Actions...

- **Customization for GMF**
  - Visualization of diagram changes
  - Diagram Layout changes

- **Customization for Papyrus**
  - CSS support for diagram changes
  - Special handling of Papyrus model file (di)
    - di, model, and notation are one unit
    - Team actions available on model node
  - Papyrus-specific save parameters are respected
Demo: Papyrus, EMF Compare & EGit
More information

http://collaborative-modeling.org
Backup slides
Example of basic collaboration workflow

push to master

master

topicA

topicB
Example of basic collaboration workflow

- **pull master**
- **topicA**
- **master**
- **topicB**
- **master**