

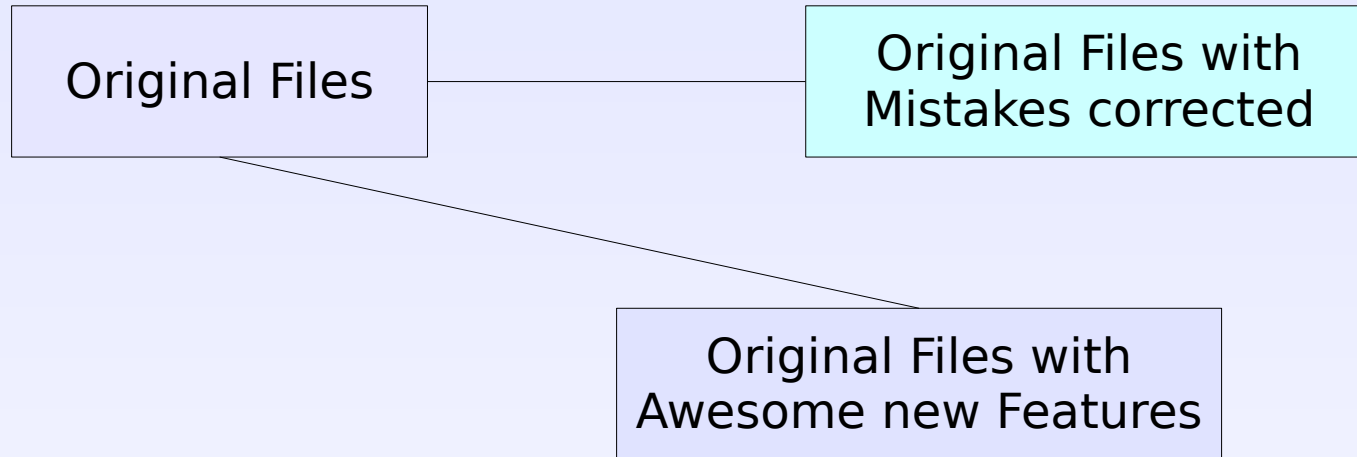


CellML Model Development with

# DISTRIBUTED

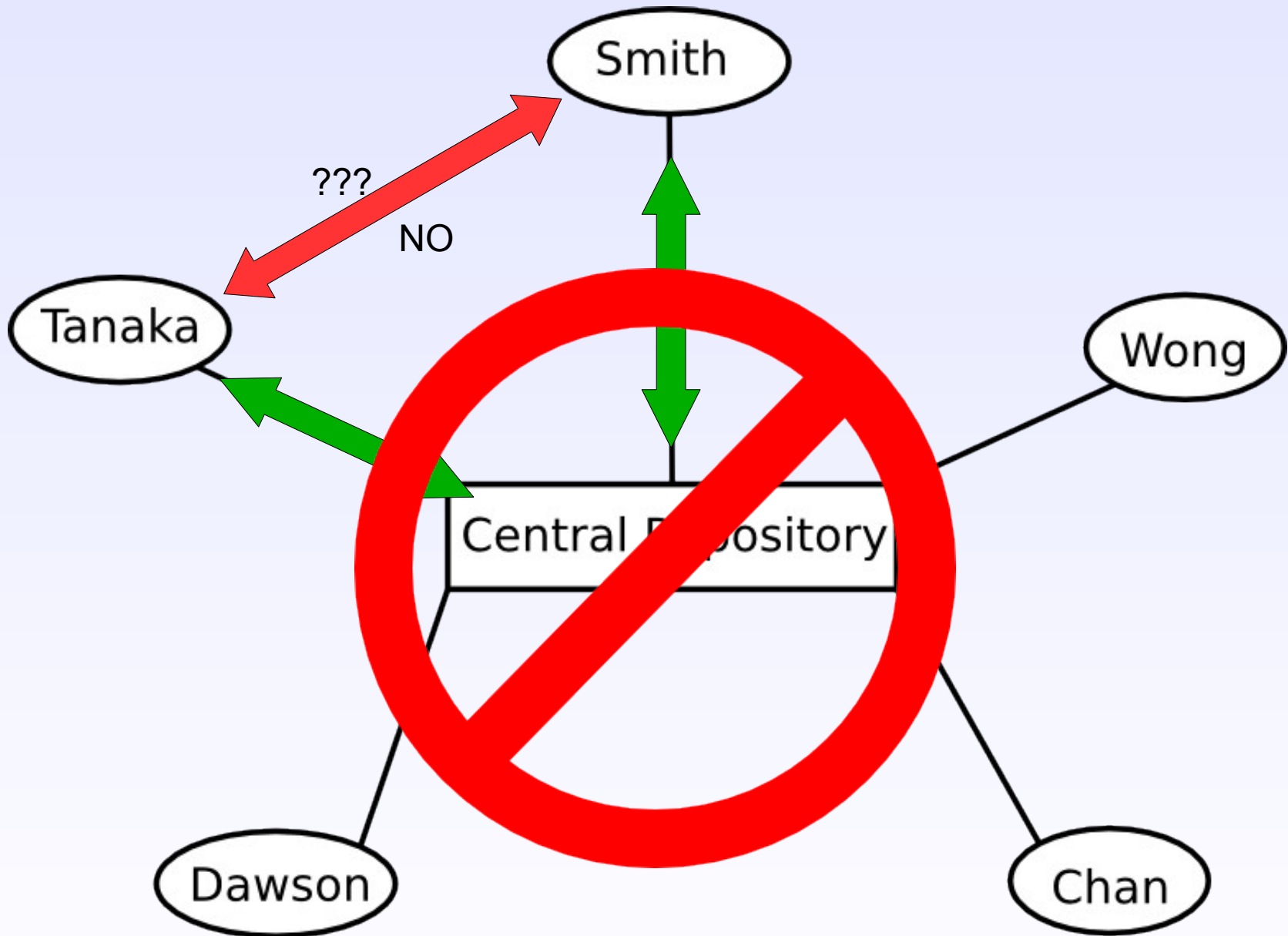
Version Control System

# Old school: copies of files

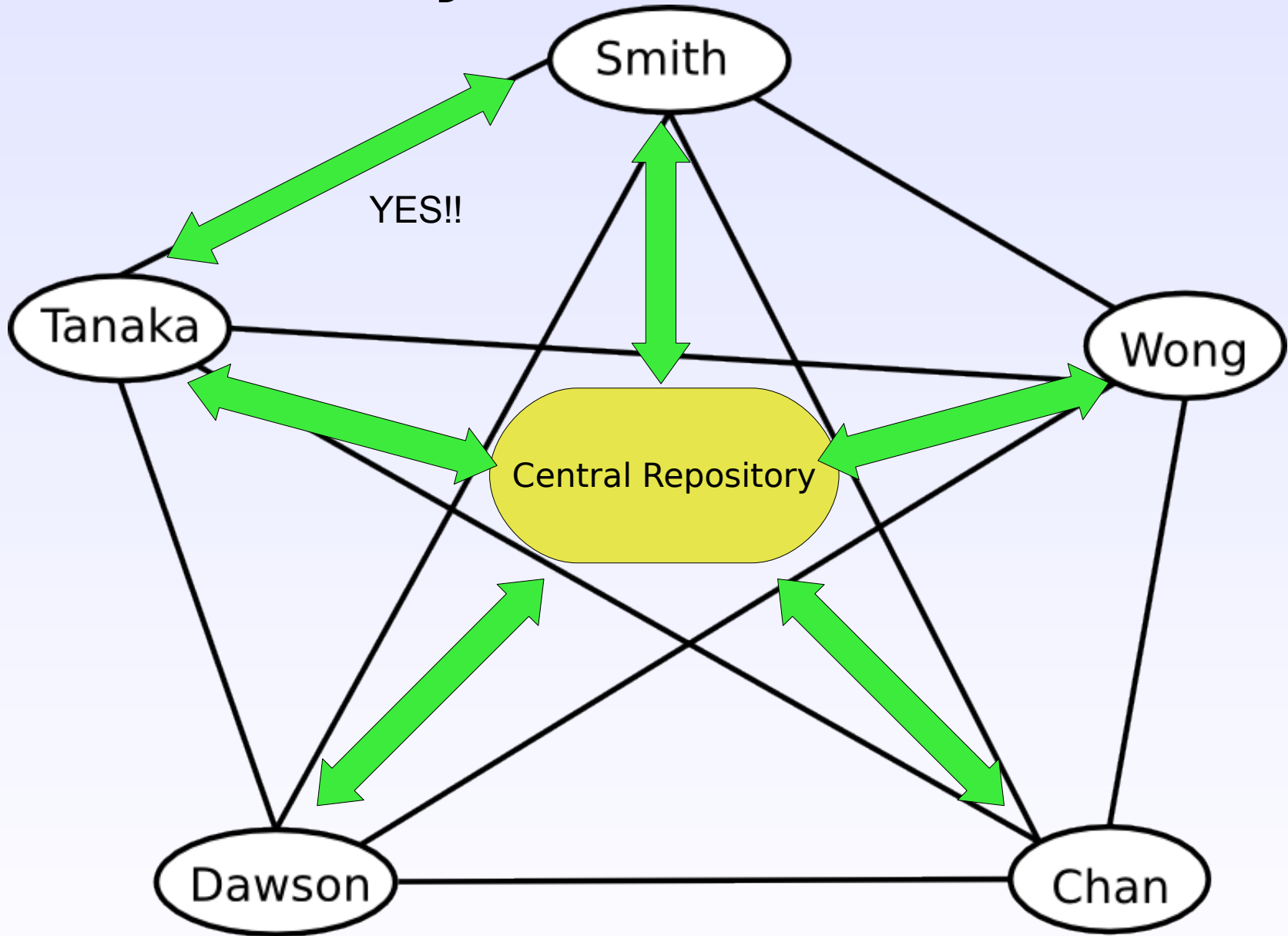


Now what?

# Revision Controlled



# Why Distributed?

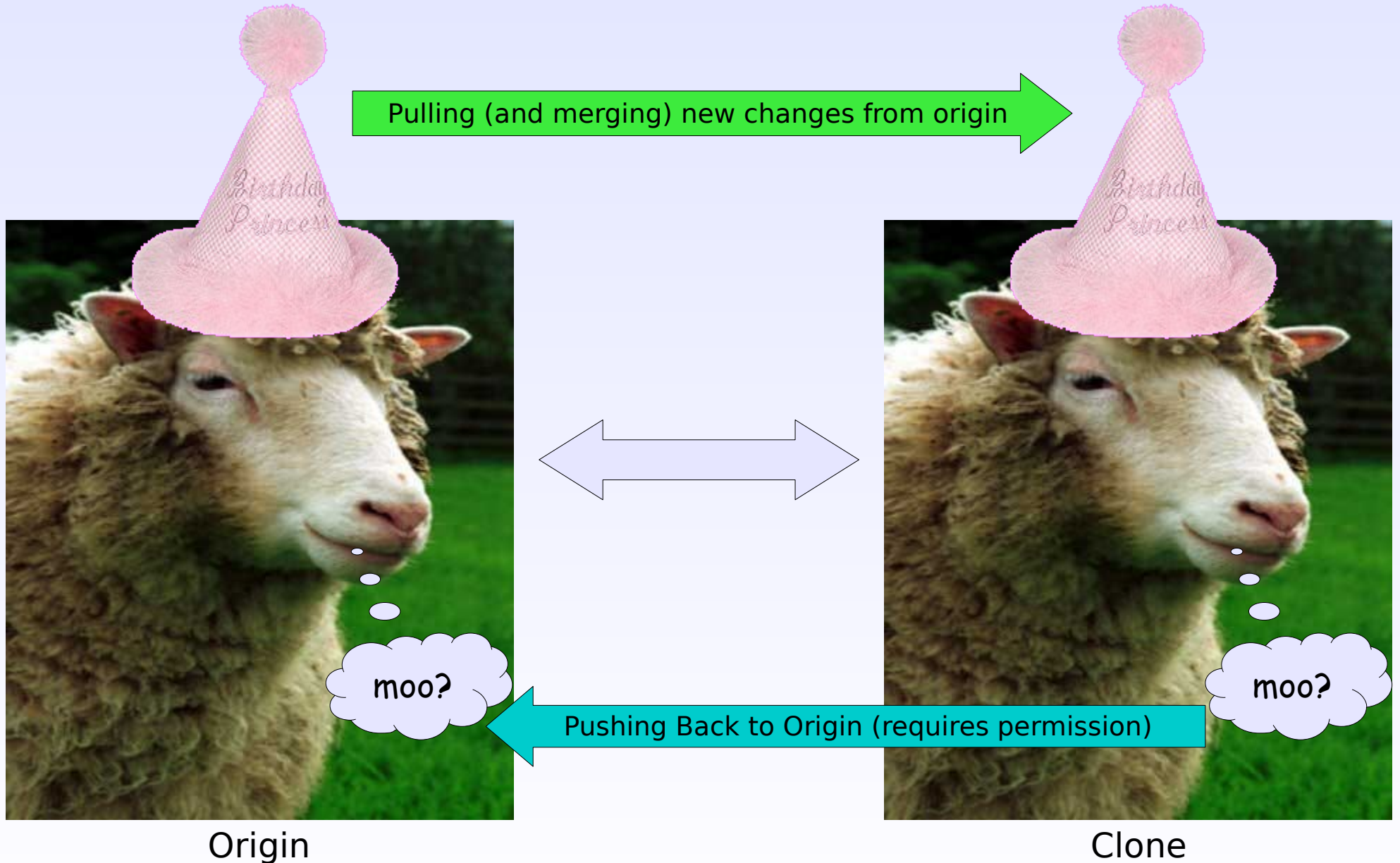


# Cloning (to start working)

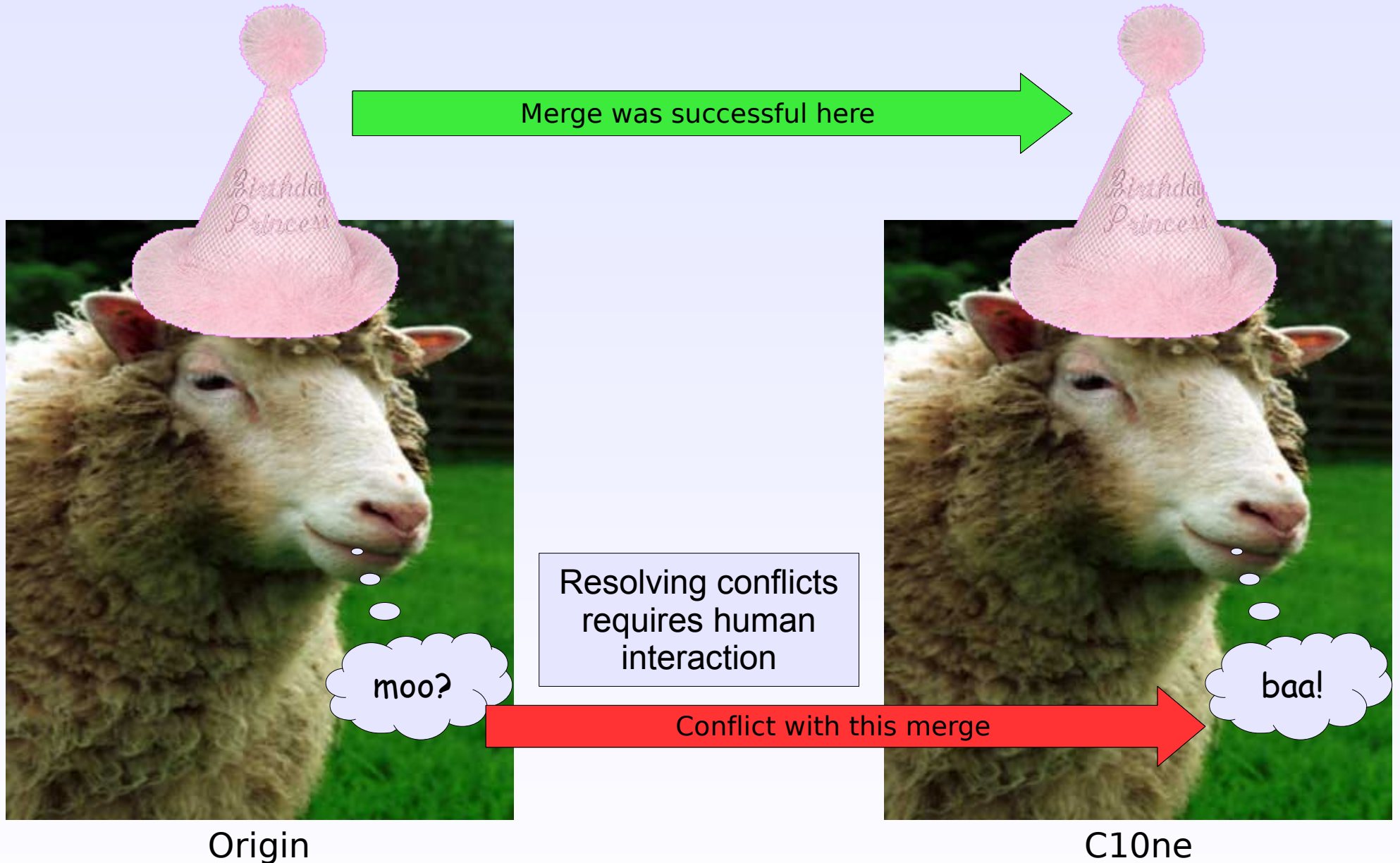
outta my way plz



# Pushing and Pulling Changes



# Merging and Conflicts





# Commit (making Changesets)



commit 1: Egg after removal of nucleus



commit 15: Dolly is grown up



commit 18: Dolly is the Birthday Princess that goes baa! Ewes don't go moo? Big oversight fixed!

# Exposing a good product



The birthday hat is a perfect cone, satisfies conic birthday hat equation constraints.

## Documentation goes here:

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed lobortis nisl vitae magna. Aliquam ipsum. Vivamus venenatis. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos hymenaeos. Nam tincidunt iaculis enim. Sed elit mauris, tincidunt eu, auctor vel, tempor eget, velit. Donec laoreet facilisis pede. Mauris mattis elementum elit. In dignissim, nisl

The ewe is happy.

The ewe goes baa!

[download model](#)


hgpmr — cellml - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://localhost:8082/cellml/hgpmr/browse

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Contents View Edit Browse Properties Sharing

**Navigation**

- hgtmp
- beeler\_reuter\_1977
- Buckets
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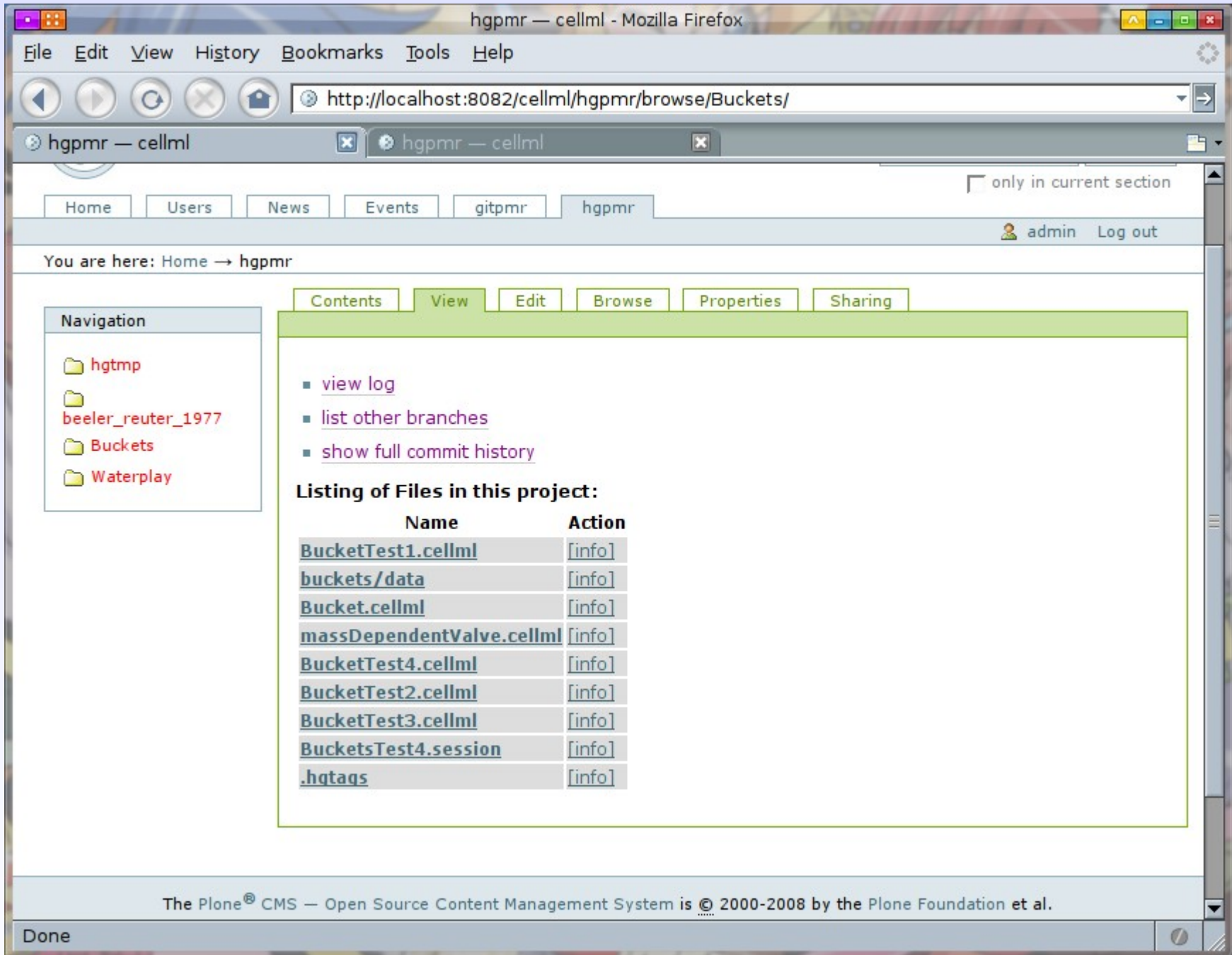
**Listing of Model Workspaces:**

Name	Action
<a href="#">beeler_reuter_1977</a>	<a href="#">[info]</a>
<a href="#">hgtest</a>	<a href="#">[info]</a>
<a href="#">Buckets</a>	<a href="#">[info]</a>

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Done



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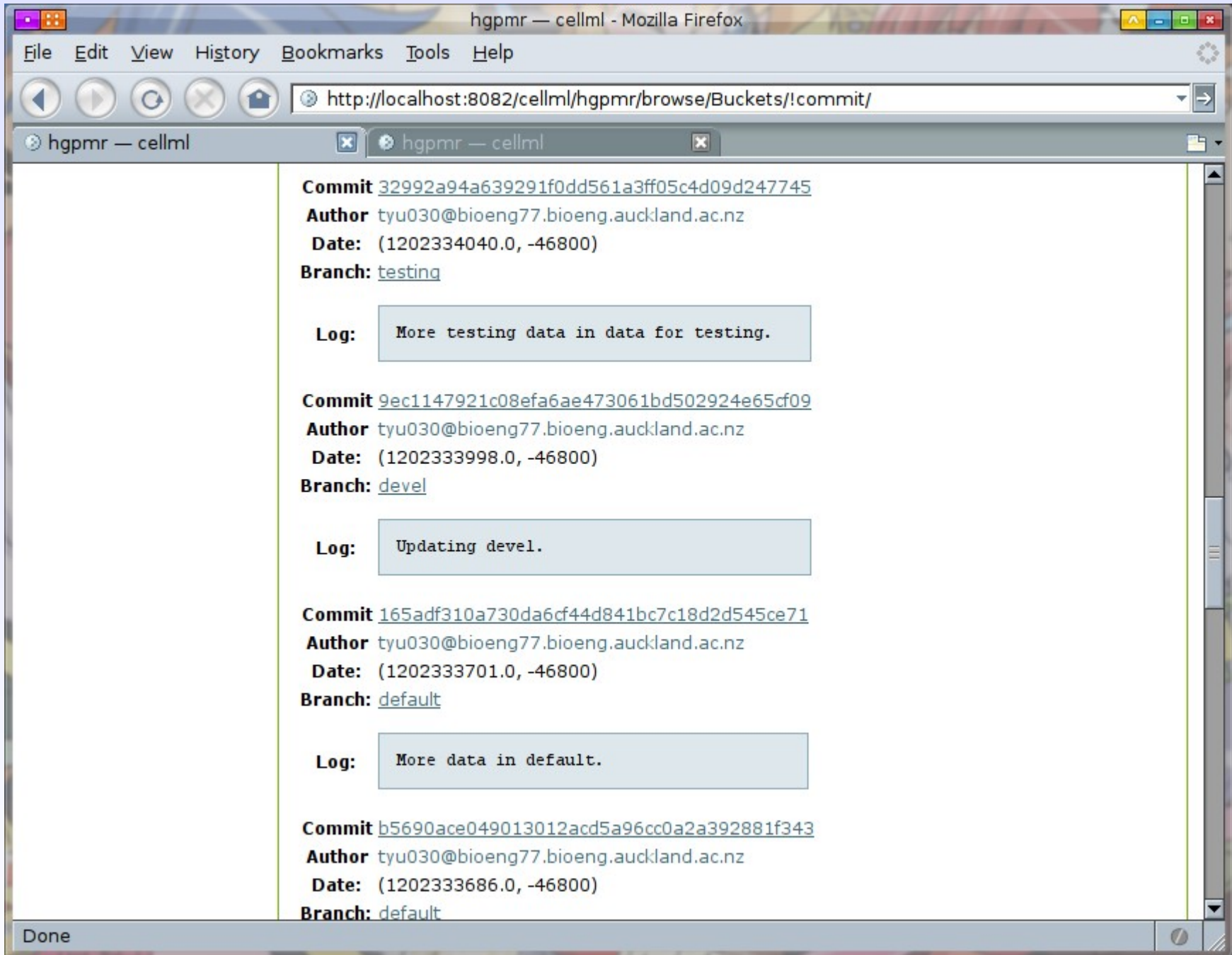
Navigation

- hgtmp
- beeler\_reuter\_1977
- Buckets
- Waterplay

- view log
- list other branches
- show full commit history

Listing of Files in this project:

Name	Action
<a href="#">BucketTest1.cellml</a>	[info]
<a href="#">buckets/data</a>	[info]
<a href="#">Bucket.cellml</a>	[info]
<a href="#">massDependentValve.cellml</a>	[info]
<a href="#">BucketTest4.cellml</a>	[info]
<a href="#">BucketTest2.cellml</a>	[info]
<a href="#">BucketTest3.cellml</a>	[info]
<a href="#">BucketsTest4.session</a>	[info]
<a href="#">.hgtags</a>	[info]



**Commit** [32992a94a639291f0dd561a3ff05c4d09d247745](#)

**Author** tyu030@bioeng77.bioeng.auckland.ac.nz

**Date:** (1202334040.0, -46800)

**Branch:** [testing](#)

**Log:** More testing data in data for testing.

**Commit** [9ec1147921c08efa6ae473061bd502924e65cf09](#)

**Author** tyu030@bioeng77.bioeng.auckland.ac.nz

**Date:** (1202333998.0, -46800)

**Branch:** [devel](#)

**Log:** Updating devel.

**Commit** [165adf310a730da6cf44d841bc7c18d2d545ce71](#)

**Author** tyu030@bioeng77.bioeng.auckland.ac.nz

**Date:** (1202333701.0, -46800)

**Branch:** [default](#)

**Log:** More data in default.

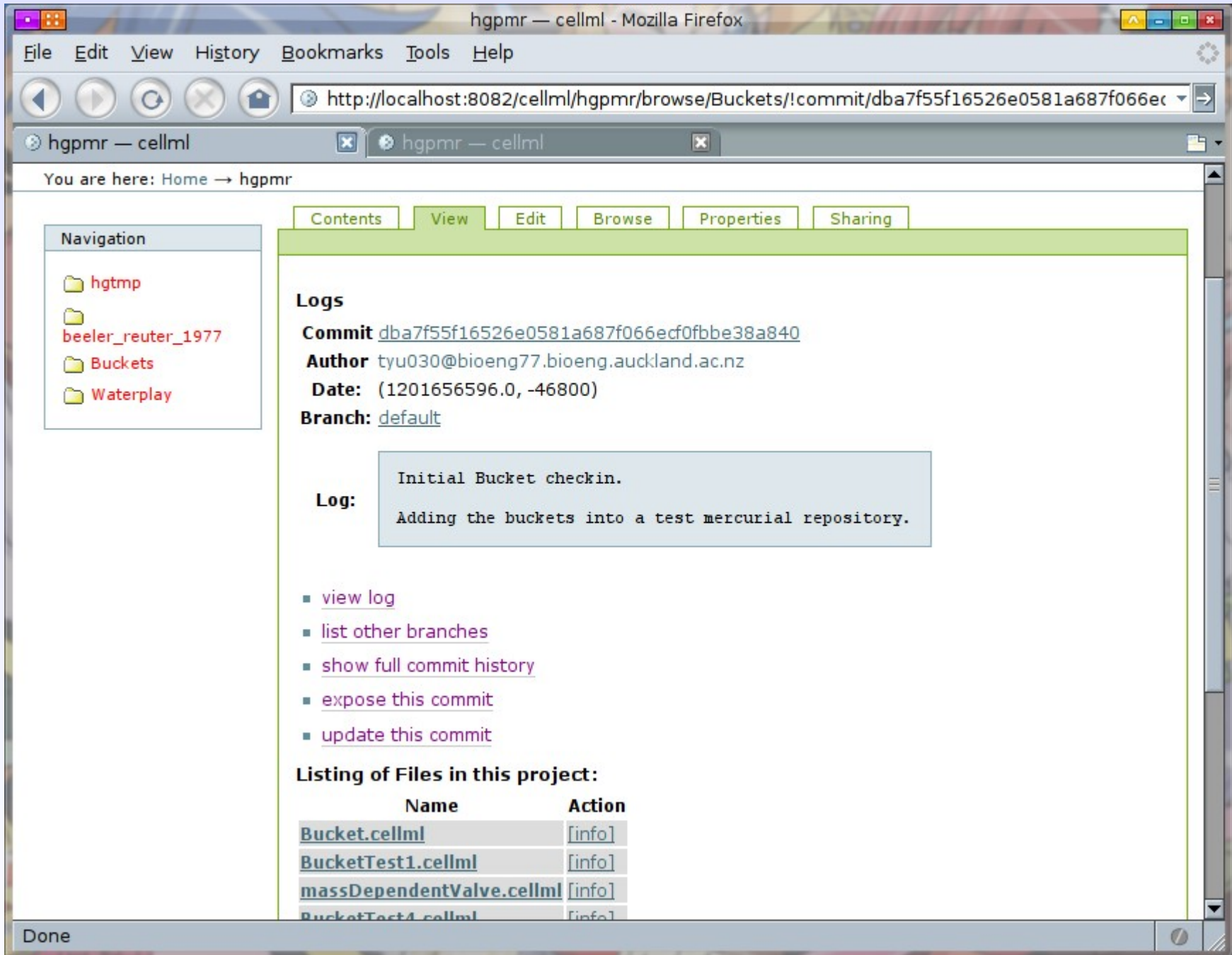
**Commit** [b5690ace049013012acd5a96cc0a2a392881f343](#)

**Author** tyu030@bioeng77.bioeng.auckland.ac.nz

**Date:** (1202333686.0, -46800)

**Branch:** [default](#)

Done



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### Logs

**Commit** [dba7f55f16526e0581a687f066ecf0fbbe38a840](#)  
**Author** tyu030@bioeng77.bioeng.auckland.ac.nz  
**Date:** (1201656596.0, -46800)  
**Branch:** [default](#)

**Log:**

```
Initial Bucket checkin.  
Adding the buckets into a test mercurial repository.
```

- [view log](#)
- [list other branches](#)
- [show full commit history](#)
- [expose this commit](#)
- [update this commit](#)

### Listing of Files in this project:

Name	Action
<a href="#">Bucket.cellml</a>	<a href="#">[info]</a>
<a href="#">BucketTest1.cellml</a>	<a href="#">[info]</a>
<a href="#">massDependentValve.cellml</a>	<a href="#">[info]</a>
<a href="#">BucketTest4.cellml</a>	<a href="#">[info]</a>


hgpmr — cellml - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://localhost:8082/cellml/hgpmr/upload\_init?form.workspace=Buckets&form.commit\_id=f7237d10cb20e0749a70

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**Model Workspace Name** ■  
The name of the workspace.

**Commit ID** ■  
The commit identifier to expose.

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Done

ea42f6dac51cd1a5466e98a3fb138c55 — cellml - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://localhost:8082/cellml/hgpmr/hgtmp/ea42f6dac51cd1a5466e98a3fb138c55/update\_file

ea42f6dac51cd1a5466e98a3f... hgpmr — cellml

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View Browse File Update File Commit Sharing

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  - 0aab4163cc2fc3626f4621a727f538db
  - ea42f6dac51cd1a5466e98a3fb138c55**
- beeler\_reuter\_1977
- Buckets
- Waterplay

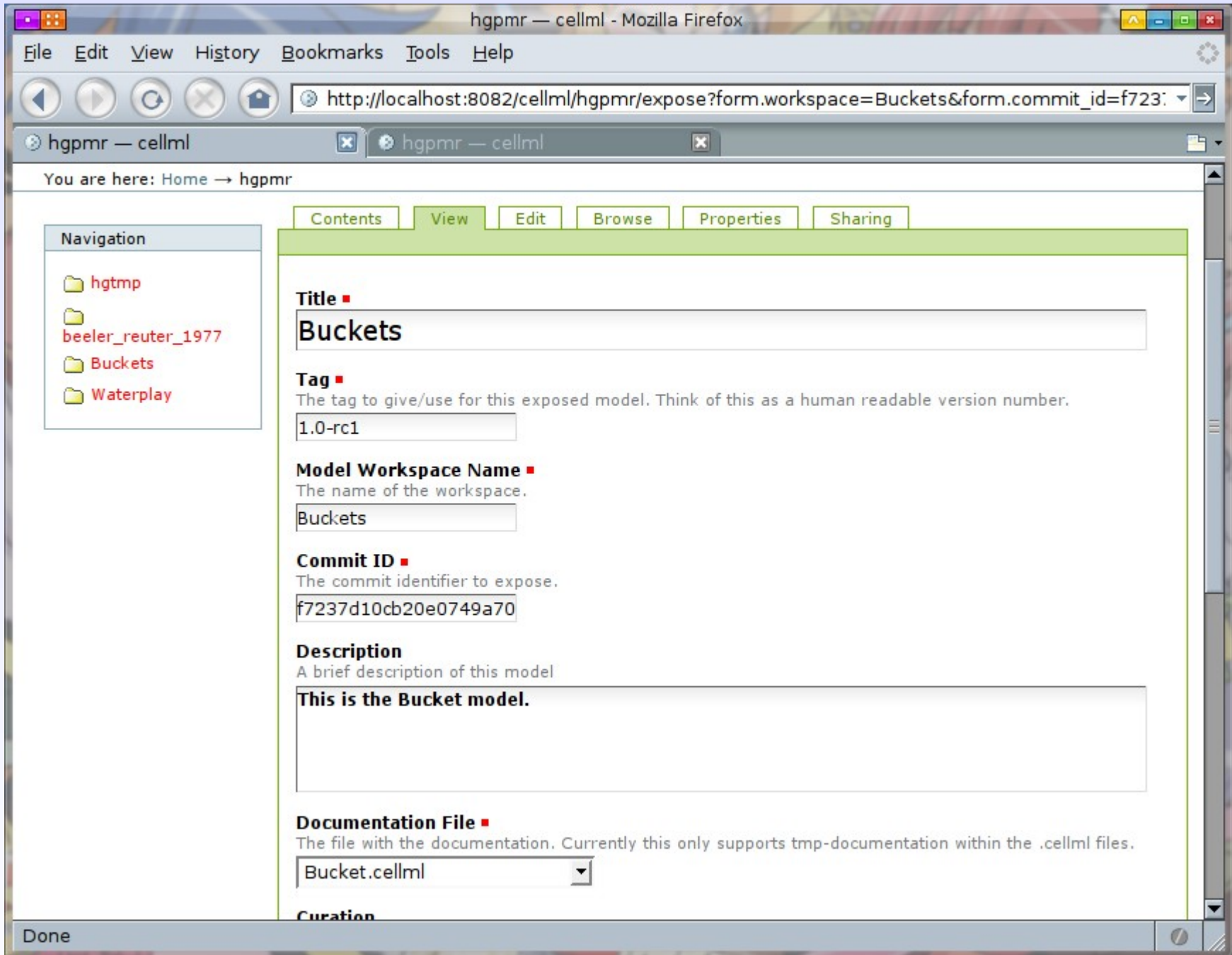
**File to Replace** ■  
The file to be replaced  
Bucket.cellml

**Data** ■  
The file on your system that you would like to upload. It will replace the contents of the file you specify above.  
Browse... Update File

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Done





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Title

Buckets

Tag

The tag to give/use for this exposed model. Think of this as a human readable version number.

1.0-rc1

Model Workspace Name

The name of the workspace.

Buckets

Commit ID

The commit identifier to expose.

f7237d10cb20e0749a70

Description

A brief description of this model

This is the Bucket model.

Documentation File

The file with the documentation. Currently this only supports tmp-documentation within the .cellml files.

Bucket.cellml

Curation

Buckets-1.0-rc1 — cellml - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://localhost:8082/cellml/hgpmr/Buckets/1.0-rc1/index

Buckets-1.0-rc1 — cellml hgpmr — cellml

View Edit Browse Properties Sharing Actions State: Private

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  - Buckets-0
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  - Buckets-0.4
  - Buckets-0.5
  - Buckets-new
  - Buckets-0.7
  - Buckets-new2
  - Buckets-0.9
  - Buckets-1.0-rc1**
- Waterplay

**Title**  
Buckets-1.0-rc1

**Tag**  
The tag to give/use for this exposed model. Think of this as a human readable version number.  
1.0-rc1

**Model Workspace Name**  
The name of the workspace.  
Buckets

**Commit ID**  
The commit identifier to expose.  
f7237d10cb20e0749a7064ba0666b296dc789053

**Description**  
A brief description of this model  
This is the Bucket model.

**Documentation**  
Detailed documentation.  
These are the documentation extracted from Buckets.cellml.

**Contents**  
Cached contents of the processed model files.  
{ }

**Curation**  
What kind of rating this model has..  
units conserve  
math correct

Done