

Welcome, Bienvenue, Welkom ...



Feeding the Bird

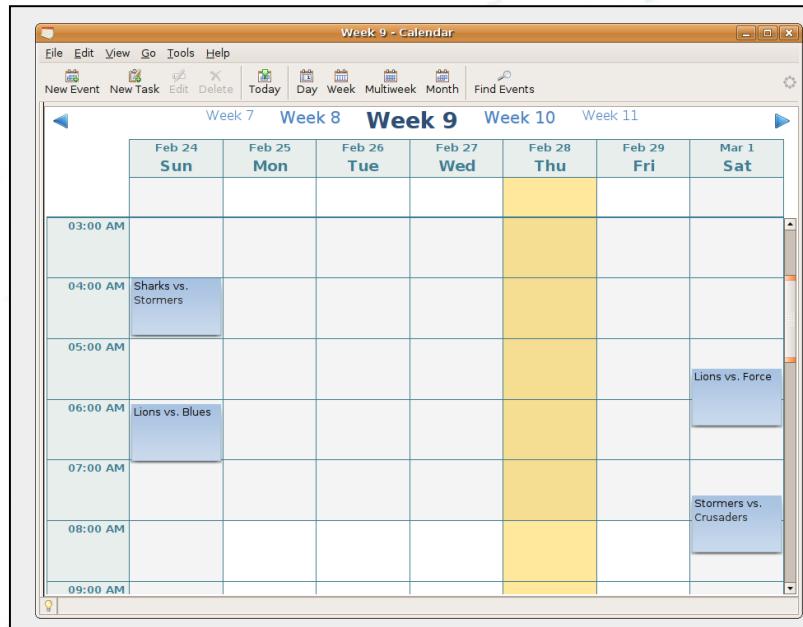
A quick start into calendar development

Duration: 30 Minutes
by Philipp Kewisch



Sunbird
it's about time

- › What does a Provider do?
 - › Show and manipulate events from a custom source
 - › Provide access to calendar servers
 - › Changes to items are “live”



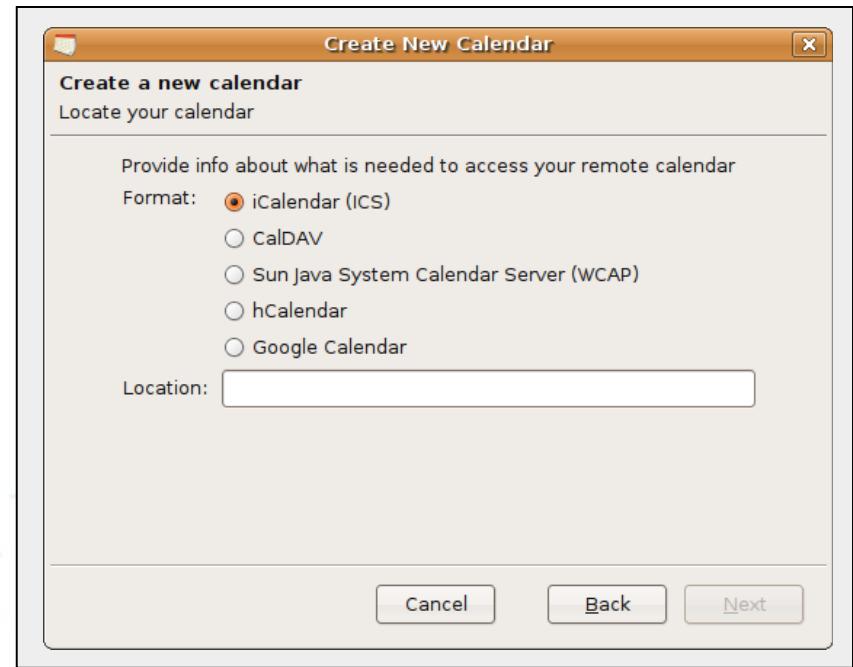
- › Existing providers
 - › Internal storage (sqlite)
 - › iCalendar / ICS
 - › CalDAV
 - › Sun Java Calendar Server (WCAP)
 - › Provider for Google Calendar
 - › ThunderBirthDay
- › Ideas for new providers
 - › Microsoft[®] Exchange Server
 - › Lotus Notes / Domino
 - › Zimbra Collaboration Suite
 - › X10 / Home control

- › **Advanced Features**
 - › Freebusy querying
 - › Searching for calendars / Subscriptions
 - › Invitation handling (iMIP/iTIP)
 - › Advanced synchronization (caching)
- › **Controlling the UI**
 - › Disable unsupported features (i.e tasks)
 - › Specify possible values (i.e privacy)

› Implement calICalendar

- › Most methods and attributes can be inherited from calProviderBase
- › `type` attribute (Short name for the provider)
- › `getItems` (Retrive Items)
- › `getItem` (Retrieve a specific Item)
- › `add, delete, modifyItem` (Write Items)
- › `canRefresh, refresh` (Action when calendar is reloaded)

To allow calendar creation using the calendar wizard, `calendarCreation.xul` needs to be overlaid.



```
<!DOCTYPE overlay SYSTEM "chrome://gdata-provider/locale/gdata.dtd">
<overlay id="calendarCreation"
         xmlns="http://www.mozilla.org/keymaster/gatekeeper/there.is.only.xul">
  <radiogroup id="calendar-format">
    <radio value="gdata" label="&gdata-provider.label;"/>
  </radiogroup>
</overlay>
```

› The hCalendar format

- › Embed events into XML-based documents
- › Makes events human-readable but allows easy parsing

```
<div id="hcalendar-FOSDEM" class="vevent">
  <a href="http://fosdem.org" class="url">
    <abbr title="20080222T2000+0100" class="dtstart">February 22th 8pm</abbr> –
    <abbr title="20080224T2000+0100" class="dtend">23th 8pm, 2008</abbr> –
    <span class="summary">FOSDEM</span>– at
    <span class="location">ULB Campus Solbosch</span></a>
    <div class="description">The event you are visiting</div>
</div>
```

› Creating the provider

- › Set up a simple extension
- › Add UI as previously described
- › Implement callCalendar
 - › Retrieve page in `getItems` call
 - › On completion, parse events from page
 - › Notify listeners with parsed events

› Live Demo

- › Baseball games

Source available from:

<https://addons.mozilla.org/en-US/sunbird/addon/6702>



The screenshot shows a green header with the word "Leaguist" in white. Below the header is a navigation bar with links: Home, Super 14 Leader board, Super 14 games, and Groups. The main content area has a light gray background and features the text "Upcoming Super 14 games" in large green letters. At the bottom of the content area is a URL: <http://www.leaguist.com/super-14-2008/games/>.

I hope you are hungry for more!



Thank you for listening!

Any questions?



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