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About me



- Java, UI and Apple nerd
- Java Development Lead at SIC GmbH in Dortmund, Germany
- I just started open source development

guigarage::

About GuiGarage

J www.guigarage.com

- Just another Java blog
- My daily experience with Java & Swing
- Home of my opensource projects



GestureWrapper



jRating



jGrid

GestureWrapper

- Use Mac OS Multitouch gestures in every Java programm
- Forget about java.lang.NoClassDefFoundError

```
GestureUtilities.registerListener(panel, new GestureRotationListener() {...});
```

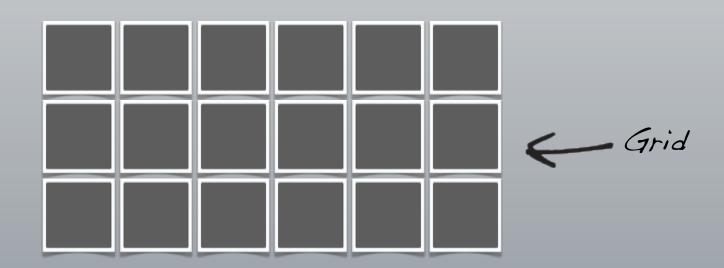
JRating

- Simple JComponent for rating
- Renderer support for different skins



JGrid

- Grid based visualization of Data
- Underlying data is administrated in a list
- Raw Data visualized by renderer



Examples of grid based views



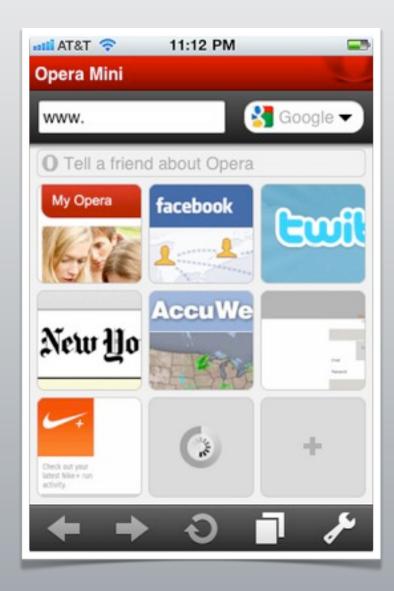
Examples of grid based views





Examples of grid based views





When to use grids?

three options for visualizing nonhirarchical collections of data



List

Metallica - ReLoad 3 Doors Down - Away from the sun

Green Day - 21st Century Breakdown Die Happy - The Weight Of The Circur

Paramore - Brand New Eyes

Beatsteaks - Limbo Messiah

3 Doors Down - The better life



Table

First Name	Last Name	
Kathy	Smith	
John	Doe	
Sue	Black	
Jane	White	
1	D	

best overview for "simple" data best overview for "complex" data

Grid



best overview for "illustrated data

guigarage::

Integration

Name	Date modified	Туре	Size
MSDNMagazine2009_08en-us.pdf	8/4/2011 5:27 PM	Adobe Acrobat D	2,460
MSDNMagazine2009_09en-us.pdf	8/4/2011 5:28 PM	Adobe Acrobat D	3,989
MSDNMagazine2009_11en-us.pdf	8/4/2011 5:27 PM	Adobe Acrobat D	2,997
MSDNMagazine2009_12en-us.pdf	8/4/2011 5:28 PM	Adobe Acrobat D	18,247
MSDNMagazine2010_01en-us.pdf	8/4/2011 5:28 PM	Adobe Acrobat D	16,026
MSDNMagazine2010_02en-us.pdf	8/4/2011 5:29 PM	Adobe Acrobat D	15,039



same data, different views

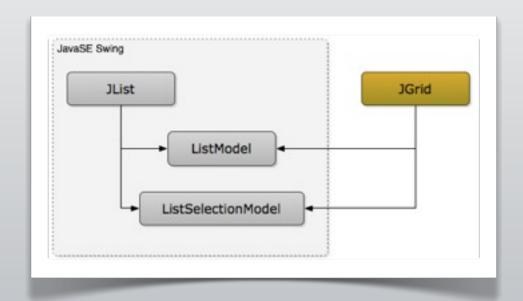


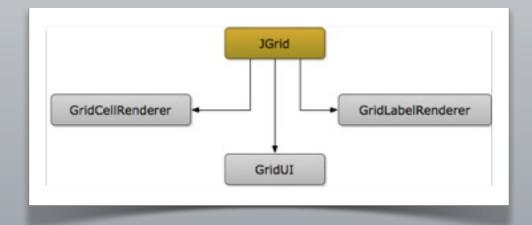




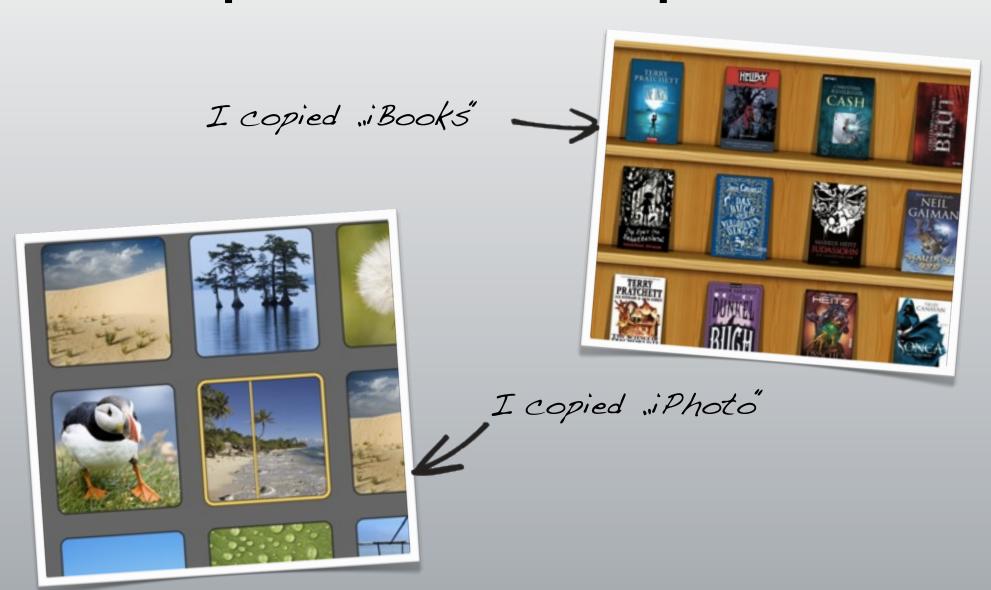
Integration

- Fall back on swing classes
- Shares interfaces with JList
- Makes use of the swing renderer concept





Develop a new example

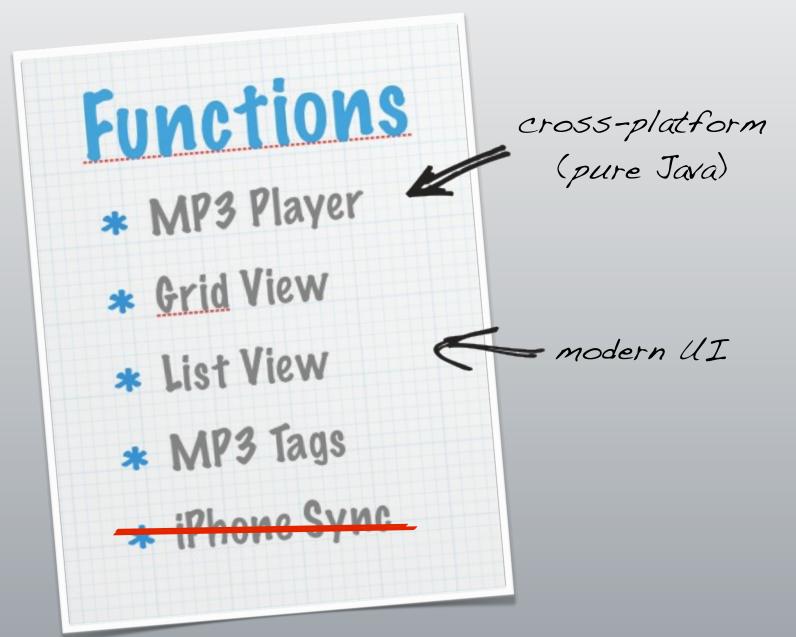


Let's continue this series ...

Let's copy iTunes...

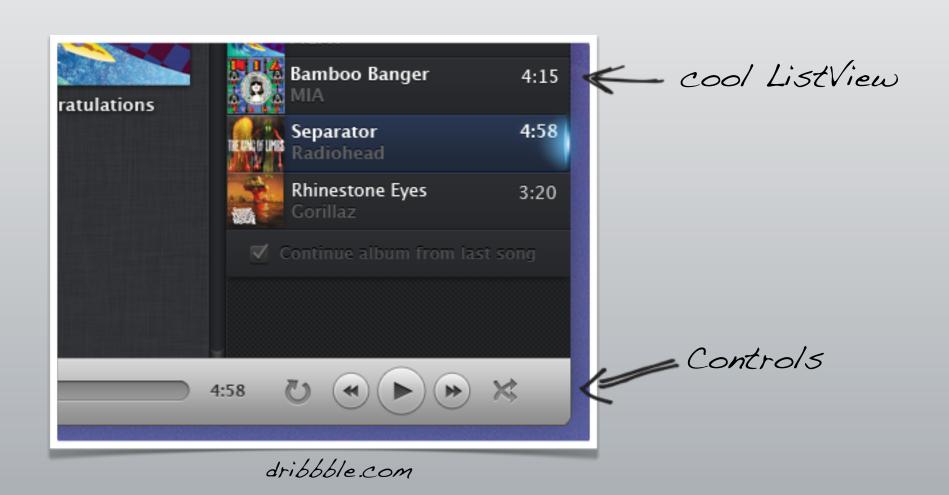


... and implement GarageTunes



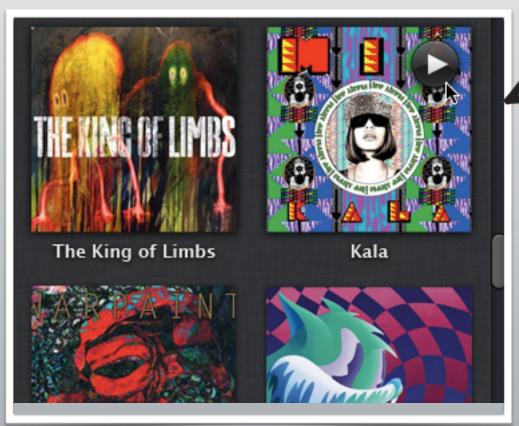


Collect some UI ideas





Collect some UI ideas



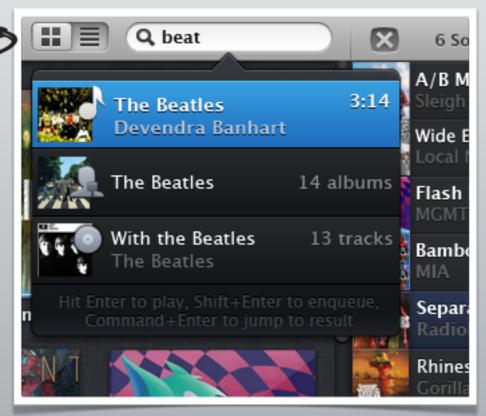
Grid of covers

dribbble.com



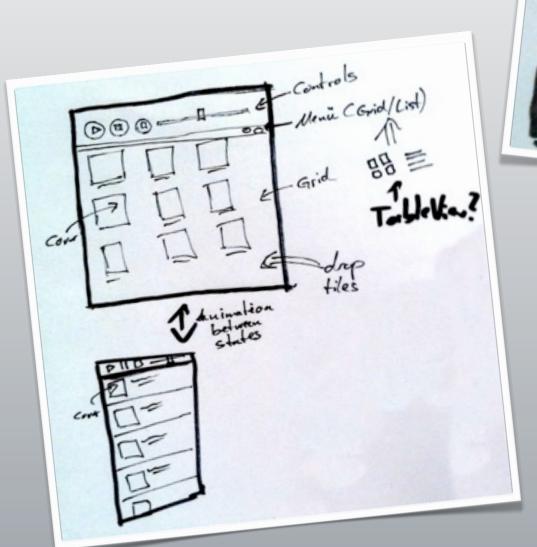
Collect some UI ideas

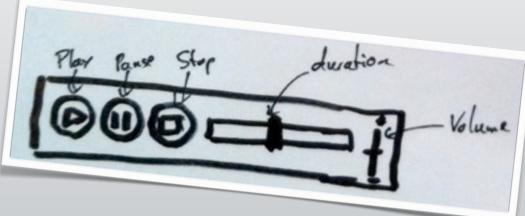
Switch between _____ Grid & List

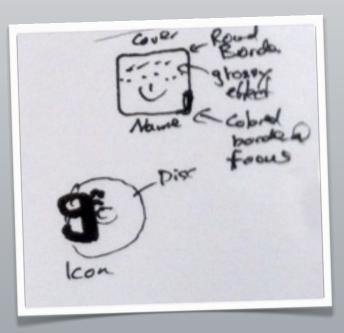


dribbble.com

User Interface Sketching



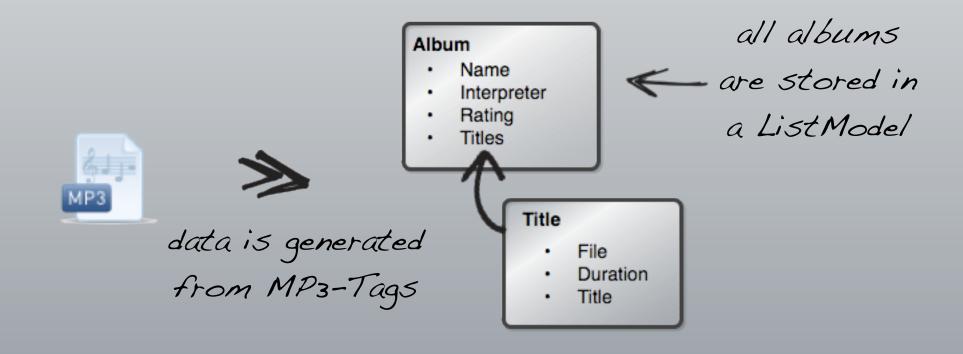






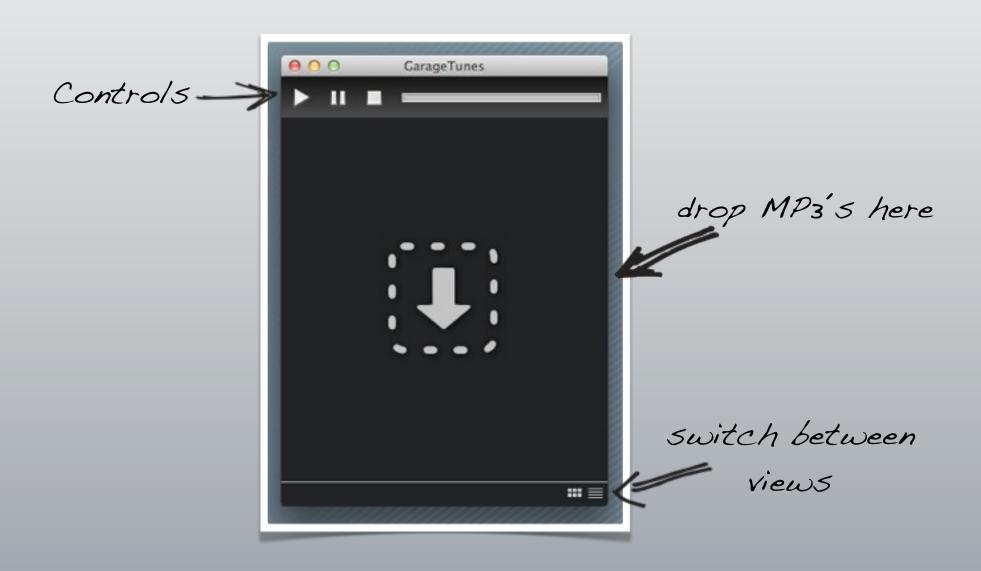
Implementing the model

- Create a datamodel
- MP3 to data (MP3-Tags)
- Drag & Drop MP3 files





Intermediate result





Custom renderer

- Create a ListCellRenderer
- Activate antialiasing
- Use gradients









Retrieve album covers



- Use amazon webservices
- Search by album name & interpreter

```
AWSECommerceService service = new AWSECommerceService();
service.setHandlerResolver(new AwsHandlerResolver(awsSecretKey));
AWSECommerceServicePortType port = service.getAWSECommerceServicePort();

ItemSearchRequest itemSearchRequest = new ItemSearchRequest();
itemSearchRequest.setSearchIndex("Music");
itemSearchRequest.setArtist(interpreter);
itemSearchRequest.setTitle(albumName);
itemSearchRequest.getResponseGroup().add("Images");

ItemSearch itemSearch = new ItemSearch();
itemSearch.setAWSAccessKeyId(awsAccessKeyId);
itemSearch.getRequest().add(itemSearchRequest);
ItemSearchResponse response = port.itemSearch(itemSearch);
```

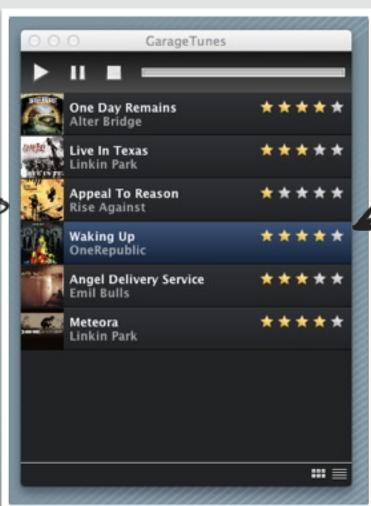


Intermediate result

covers from

amazon

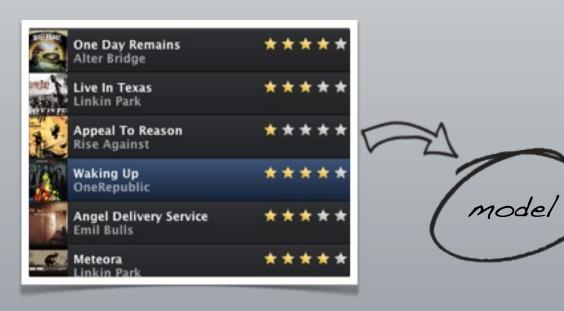
webservices

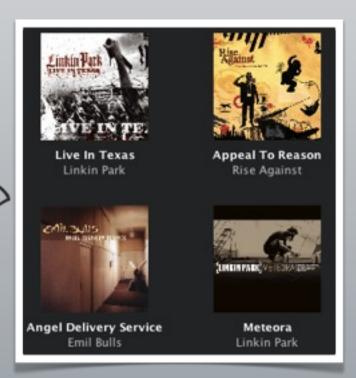


JRating as part of the renderer

Adding a gridview

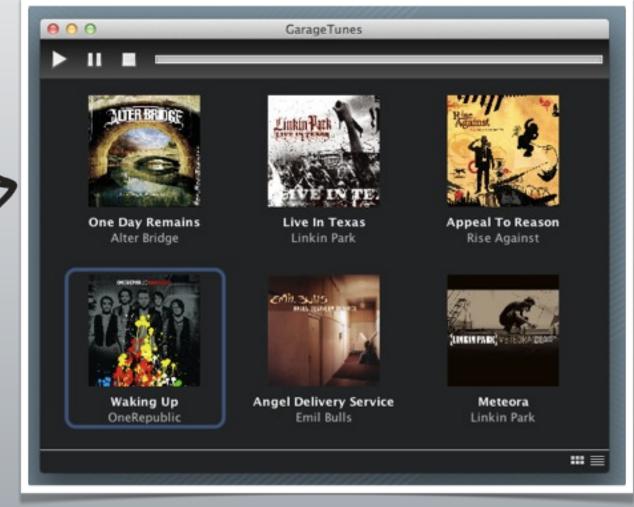
- Add GridView
- Grid and list share selection & data model
- Add GridCellRenderer







Intermediate result





Finishing coding

- Play the MP3s
- mp3spi.jar
 - Service provider interface
 - Use javax.sound.*





Garage Tunes To Dos

better user feedback: rollover effects on 000 GarageTunes controls ReLoad Metallica Away from the sun 3 Doors Down showing loading 21st Century Breakdown 🛨 🛨 🛨 state for covers Green Day (animation?) The Weight Of The Circumstand 🖈 Die Happy *** **Brand New Eyes** Paramore Garage Tunes Icon *** Limbo Messiah Beatsteaks The better life ***

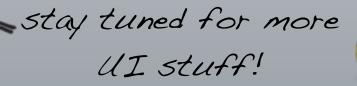
JGrid Roadmap

- Full support for ListSelectionModel (interval selection, etc.)
- Sorting & filtering
- Label renderer
- Cell & label editor
- OS specific Uls

Summery

- Use JGrid alternative to JList
- Best practice:
 - Let the user change the view
 - share the models between the views

- Integrate gestures as a alternative to your user guidance
- Subscribe to my Blog feed



Q&A