Useful Stuff

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Agenda

- Ruby Facets
- Sequel
- HAML/SASS



Facets

- "Ruby Facets is the single largest collection of core extension methods and standard library additions available for the Ruby programming language"
- Facets/Core and Facets/More API
- Atomic requires on the method level
- http://facets.rubyforge.org



Array

```
1 [0,1,2].pad(6,0)
2 # => [0,1,2,0,0,0]
3 [1,2,3].rotate(2)
4 # => [2,3,1]
```

Comparable

```
1 4.at_least(5) # => 5
2 4.at_most(5) # => 4
3 4.clip(2,7) # => 4
4 9.clip(2,7) # => 7
```



Enumerable



Float

```
1 4.555.round_at(0) #=> 5.0
2 4.555.round_to(0.1) #=> 4.6
```

Integer

```
1 5.even? # => false
2 6.multiple?(2) # => true
3 3.of {|i| i+1} # => [1,2,3]
```



Facets/More

Annotations AOP Advice Ansicode Association AutoArray AutoReload BasicObject Behavior BinReadable Buildable Bytes CacheDelegator Capsule ClassExtension ClassMethods Cloneable CompareOn ConsoleUtils Coroutine Crypt Curry Daemonize Date Dependency Dictionary Downloader Elementor EnumerablePass EventHook Expirable File FileUtils Functor GetoptLong Heap Infinity Inheritor Instantiable Instantise Interface Interval IORedirect Lazy Let LinkedList Logger LRUcache MapSend Memoize Minitar Multipliers Multiton NackClass Namespace NullClass OpenObjects Overload Paramix Pathname Pool Prepend ProgressBar Prototye Random RBconfig RBsystem Recorder Recursive Reference Reflection Remain RWDelegator Semaphore Shellwords SMTP TLS Snapshot Stylize Sync Timer Times TracePoint Tuple Typecast Uninheritable UploadUtils Version YAML ZipUtils



Sequel

- "Sequel is a lightweight ORM library for Ruby."
- Active Development
 - 0.0.1 March 2007
 - 0.3.4 November 2007
- Lead Developer: Sharon Rosner
- http://sequel.rubyforge.org



Database Support

- Database adapters for
 - ADO
 - DBI
 - MySQL
 - ODBC
 - Oracle
 - PostgreSQL
 - SQLite 3







```
1 DB[:items].filter {:price < 100}.sql
 2 #=> "SELECT * FROM items WHERE (price < 100)"
 3 DB[:items].filter {:name =~ 'AL%'}.sql
 4 #=> "SELECT * FROM items WHERE
                             (name LIKE 'AL%')"
 5 DB[:items].filter {:state.nil?}.sql
 6 #=> "SELECT * FROM items WHERE (state IS NULL)"
 7 DB[:items].filter \{(:x + :y) > :z\}.sql
 8 \#=> "SELECT * FROM items WHERE ((x + y) > z)"
 9 DB[:items].filter {:price < :AVG[:price] +</pre>
100}.sql
10 #=> "SELECT * FROM items WHERE
        (price < (AVG(price) + 100))"
```









Models

```
1 class Post < Sequel::Model(:posts)
2   set_primary_key [:category, :title]
3   one_to_one :author, :from => Author
4
5   subset(:old_posts) {:stamp < 30.days.ago}
6   subset :invisible, :visible => false
7   end
8   post = Post['ruby', 'hello world']
9   post.author = Author['Farrel','Lifson]
10   Post.filter.invisible
```



HAML/SASS

- "Haml is based on one primary principal."
 Markup should be beautiful."
- Rails or standalone
- http://haml.hamptoncatlin.com/



HTML

```
<div id='content'>
 <div class='left column'>
  <h2>Welcome to our site!</h2>
  >
   <%= print_information %>
  </div>
 <div class="right column">
  <%= render :partial => "sidebar" %>
 </div>
</div>
```



HAML

```
#content
.left.column
%h2 Welcome to our site!
%p= print_information
.right.column= render :partial => "sidebar"
```



SASS

#main p

:color #00ff00

:width 97%

.redbox

:background-color #ff0000

:color #000000



CSS

```
#main p {
  color: #00ff00;
  width: 97%; }
#main p .redbox {
  background-color: #ff0000;
  color: #000000; }
```

