

# Bearden Walkthrough

**Jon Allured**

**Engineer, Artsy**

@jonallured



**jon.zone/rubymn-bearden**

**ARTSY**

**Artsy's mission is to make all the world's art accessible to anyone with an Internet connection.**

**Open Source  
By Default  
artsy/bearden**



**Rommare**

**Bearden**



ПРОПА

ДЕТ

Романовская

## What Does Bearden Do?

- Database of Arts Organizations
- Ranks relational data by source and flattens into winning data
- Imports CSVs -> Writes to Postgres -> Exports CSVs to Redshift

# Gimme Some Stats!

```
% cloc ./
  300 text files.
  300 unique files.
  105 files ignored.
```

```
github.com/AlDanial/cloc v 1.70 T=2.51 s (83.5 files/s, 2884.8 lines/s)
```

```
-----
Language                files          blank          comment          code
-----
Ruby                    174            726             79            4614
SQL                      1             237            234             274
Haml                     11             28              0             214
Markdown                 2             67              0             210
HTML                     3             15              3             182
YAML                     7             22             30             118
Bourne Shell             4             20             10              78
SASS                     3              2              0              41
ERB                      2              1              0              13
JavaScript               3              3             26              4
-----
SUM:                     210           1121            382           5748
-----
```



# Gimme Some Stats!

- 5 controllers
- 31 models
- 12 views
- 8 jobs

# Small objects that do one thing

31 files in app/models

14 ApplicationRecord children

17 POROs, nice 👍

## **Bearden highlights:**

- source rank resolution
- simple state machines
- poor man's Sidekiq batches
- Slack for updates

list\_from\_source\_a.csv

**email**

**name**

---

julia@gallery\_abc.com

Gallery ABC

list\_from\_source\_b.csv

**email**

**name**

---

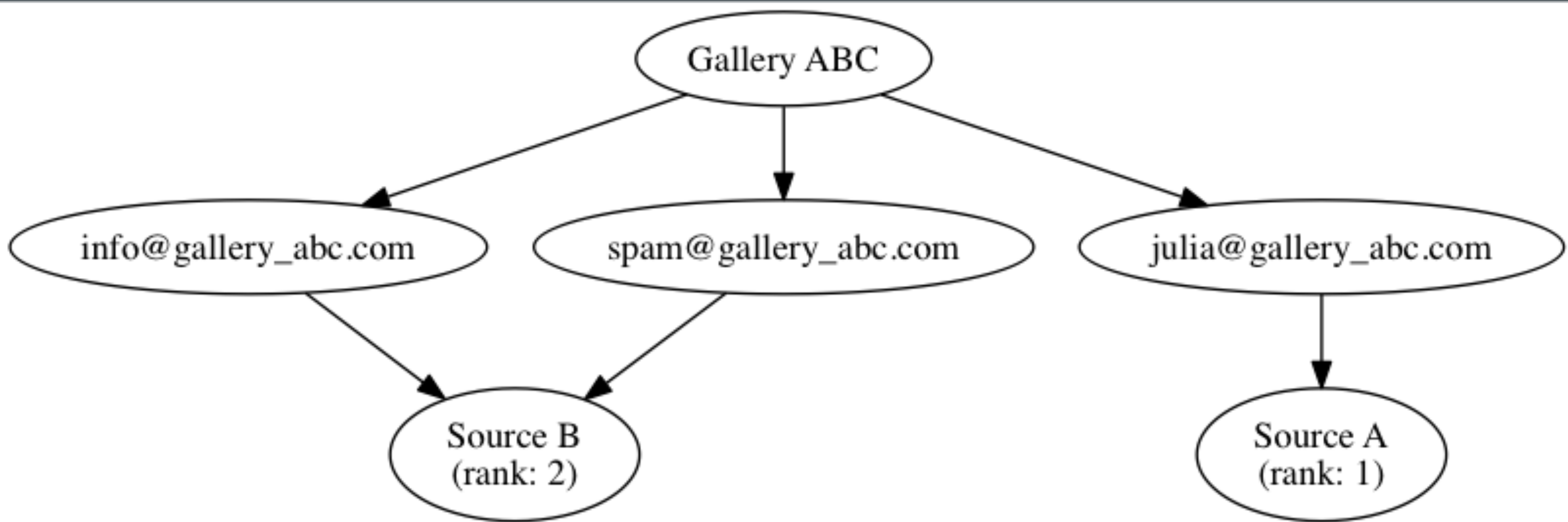
info@gallery\_abc.com

Gallery ABC

---

spam@gallery\_abc.com

Gallery ABC



export\_list.csv

**email**

**name**

---

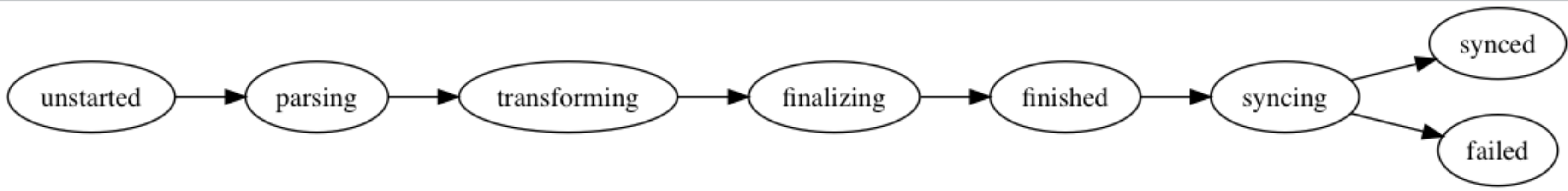
julia@gallery\_abc.com

Gallery ABC

# soveran/micromachine

- > 50 lines of code
- composition
- 0 dependencies
- cool name

# Import States





```
class Import < ApplicationRecord
  validates :state, presence: true, inclusion: ImportMicroMachine.valid_states

  def parse
    machine.trigger ImportMicroMachine::PARSE
    ParseCsvImportJob.perform_later id
  end

  private

  def machine
    @machine ||= ImportMicroMachine.start(state, method(:update_state))
  end

  def update_state(_)
    update_attributes state: machine.state
  end
end
```

```
class ImportMicroMachine < MicroMachine
  UNSTARTED = 'unstarted'.freeze
  PARSE = 'parse'.freeze
  PARSING = 'parsing'.freeze

  def self.valid_states
    machine = new(UNSTARTED)
    machine.configure
    machine.states
  end

  def self.start(initial_state, callback)
    new(initial_state).tap { |machine| machine.configure(callback) }
  end

  def configure(callback = nil)
    on(:any, &callback) if callback
    self.when(PARSE, UNSTARTED => PARSING)
  end
end
```

## **Poor Man's Sidekiq Batch**

- Parent job that enqueues child jobs
- Child jobs run in parallel and increment counter
- Heroku Scheduler checks the state of the counter

# Slack Integration

- ☰ All Unreads
- 🗨 All Threads
- ★ STARRED
- # bearden-burden
- # bearden-testing
- # partner-success
- # rosalind
- 🔄 ashkinas
- 🔄 chung-yi
- 🔄 lancew
- 🔄 madeleineb
- 🔄 roop
- CHANNELS
- # aotd
- # artwork-management
- # dev
- # dev-offtopic
- # general
- # help

- 🐻 bearden-bot APP 3:05 PM  
🌱 Sync starting
- 🐻 bearden-bot APP 7:04 PM  
🎉 Fair Exhibitor Roster import: 33 finished: <https://bearden.artsy.net/imports/33>  
🐻 Sync complete - before: 109113, after: 109310
- 🐻 bearden-bot APP 7:14 PM  
🌱 Sync starting
- 🐻 bearden-bot APP 11:38 PM  
🙄 Sync failed with: PG::UnableToSend: SSL SYSCALL error: EOF detected

June 9th

- 👤 lancew 7:40 AM  
Looks like a connection error. I'll retrigger the sync
- 🐻 bearden-bot APP 7:40 AM ☆  
🌱 Sync starting
- 👤 madeleineb 8:31 AM  
Thanks Lance!
- 🐻 bearden-bot APP 1:08 PM  
🐻 Sync complete - before: 69000 after: 109315



+ Message #bearden-burden 😊

Artsy ▾

● jonallured !?

☰ All Unreads

🗉 All Threads

★ STARRED

# bearden-burden

# bearden-testing

# partner-success

# rosalind

🔗 ashkinas 👤

🔗 chung-yi 🦋

🔗 lancew

🔗 madeleineb 📺

🔗 roop 🐾

CHANNELS (+)

# aotd

# artwork-management

# dev

# dev-offtopic





# general

# help


## #bearden-burden

★ | 👤 16 | 🌟 0 | Add a topic


📞 ⚙️ 📄 🔍 Search @ ☆ ⋮


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+ Message #bearden-burden 😊

A collage-style illustration with a dark blue background. On the right, a man in a dark suit and white shirt is shown in profile, looking towards the left. In the center, a woman is depicted wearing a red dress with a yellow and black geometric pattern. To the left of the woman, there is a stylized building with a grey facade and two windows. Below the building, a yellow symbol resembling a cross with a horizontal bar is visible. In the bottom left corner, there is a small illustration of a blue and white chicken standing in a field with green plants. The overall style is graphic and layered.

# Questions?

[jon.zone/rubymn-bearden](http://jon.zone/rubymn-bearden)