Creating Electronic Health Records within 15 minutes with Ruby on Rails and ISO 13606/openEHR standardised Clinical Models

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Medinfo 2013
2013/08/21
Announcement

- Keynote is in "Plenum room"
  - U.S. Navy Capt. Michael Weiner
  - Title: Efficient Care: Improving Quality Health Care in the Post Electronic Health Record World.
Agenda

- Ruby
- Ruby on Rails
- Demo: Creating EHR by rails
- The openEHR project
- Demo: Creating EHR with the openEHR archetype
Ruby

- Object Oriented Scripting Language
- Creator: Yukihiro 'Matz' Matsumoto
Ruby on Rails

- Highly productive web development framework
- Creator: David Heinemeier Hanson, born in Copenhagen!
Requirements

- Ruby 1.9.3 or later (2.0.0 recommended)
- Rails 4.0
- Editor or IDE (as you like)
- OS: Linux, MacOS, Windows or other platform that Ruby runs.
Rails demo

- Create people list
- Create healthcare note
The openEHR project

- An open domain-driven platform to implement EHR systems
- Basis of ISO 13606
- Archetype clinical concept models
- Open source implementation
Ruby implementation of the openEHR

- Open source software (Apache 2 license)
- GitHub: https://github.com/skoba/openehr-ruby
- GitHub: https://github.com/skoba/openehr-rails
openehr-rails demo

- Install openehr-rails
- Get archetype from CKM (Clinical Knowledge Manager)
- Generate scaffold from archetype
Conclusion

- As just you have watched.
- Ruby is good!
- Rails is very good!
- Copenhagen is excellent!