

Lennaert Bel – David Bengoa – Kevin Dungs – Kevin Maguire

HEP Tycoon

Manage your own High Energy Physics research facility!



/kdungs/hep-tycoon

approx. 48 hours ago



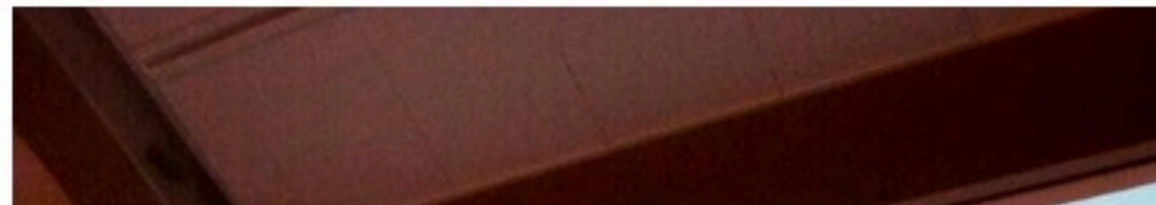
Daniel Lombraña Glez
@teleyinex



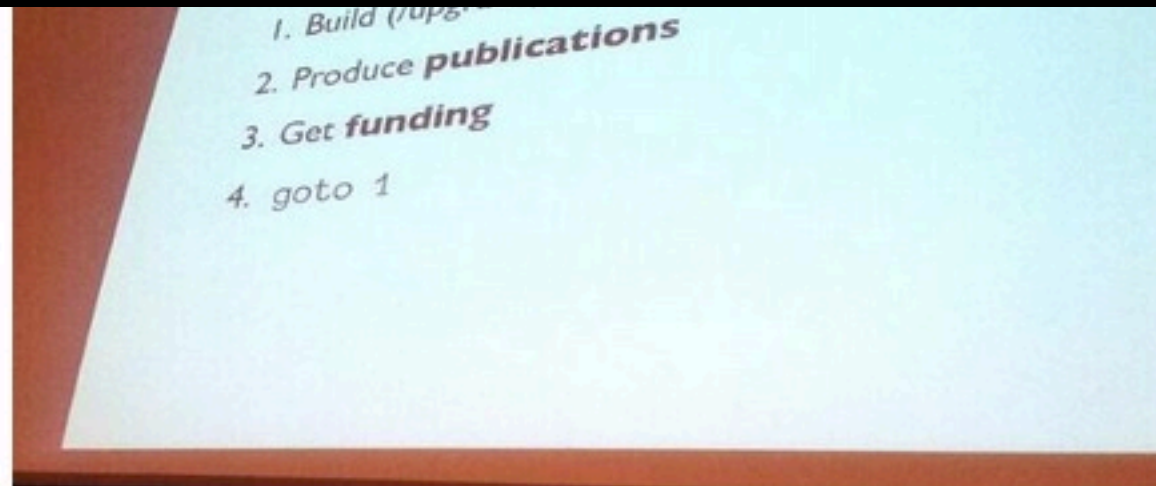
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Another game. This time about HEP tycoon
Great [#cernwebfest](#)
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“over-ambitious”



1

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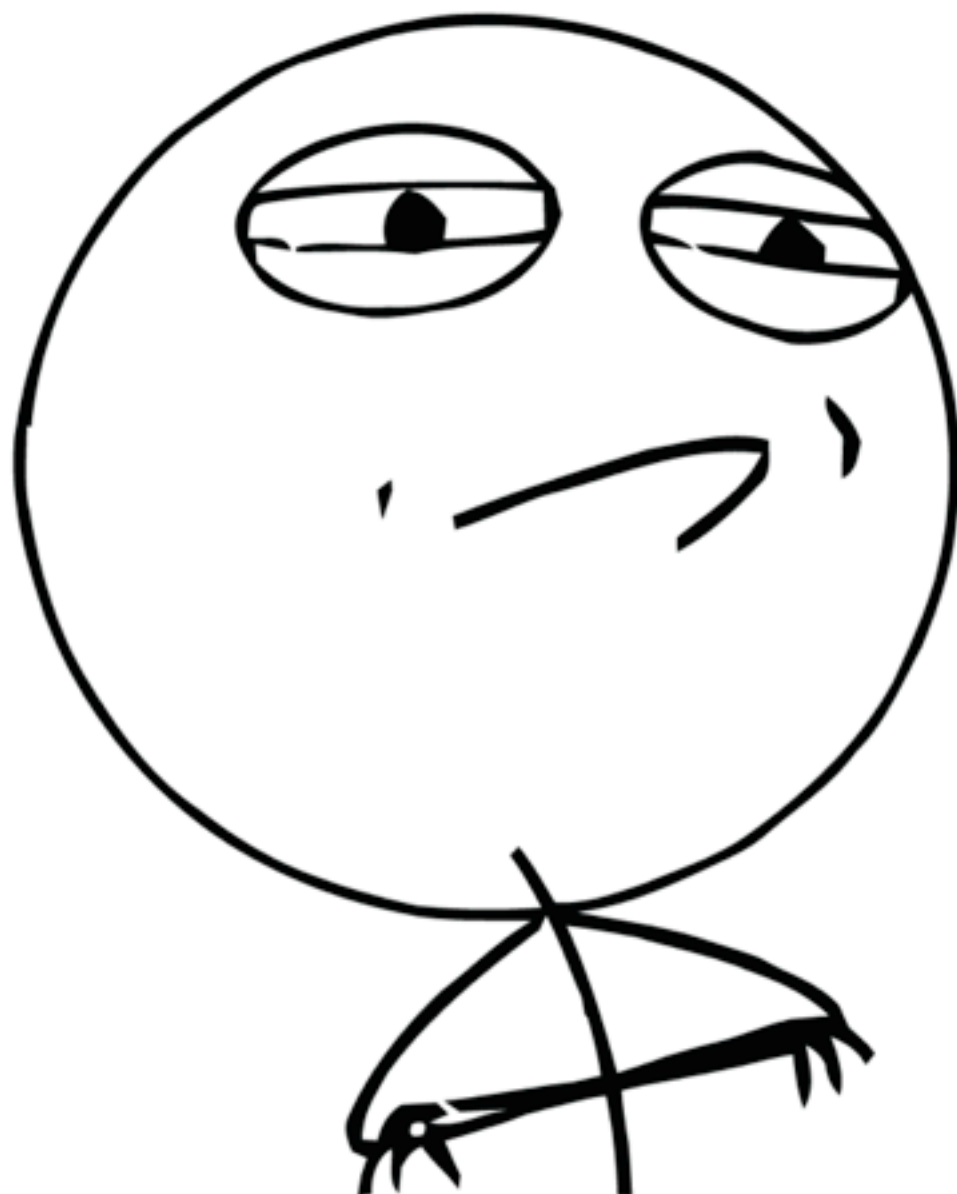
The Idea

- Fun and educational game
 - Manage a research facility
 - Learn about
 - Components (Accelerators, Detectors, ...)
 - Discoveries (e.g. W, Z, Higgs, SUSY-Particles ...)
 - ...

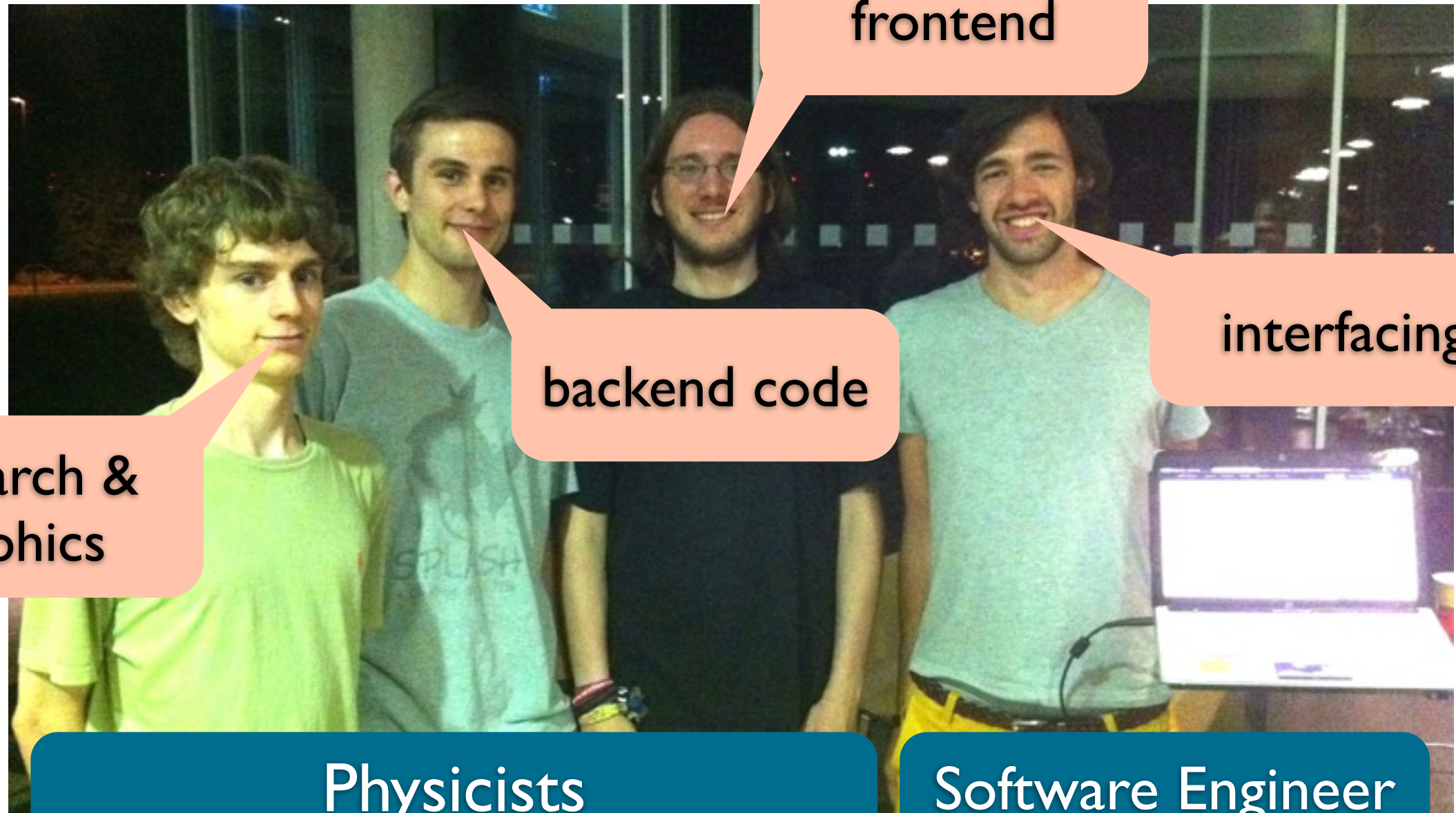
Challenges

- Too many ideas!
- **Start from scratch**
- Time
- Not been done before!
- ...

CHALLENGE ACCEPTED



The Team



research &
graphics

frontend

backend code

interfacing

Physicists

Software Engineer

Kevin Maguire

Kevin Dungs

Lennaert Bel

David Bengoa



Goals for the weekend

- **Simple prototype** (very simplistic model of reality...)
- **Focus on core concepts**
- **Extensibility** (add depth and functionality later)

FUN!

Game Logic

1. Build (or upgrade) an **accelerator**
2. Build or upgrade **detectors, data storage**; hire **scientists**
3. Produce **data**
4. Scientists: data → **publications**
5. Get **funding** or goto 2
6. goto 1

HEP Tycoon ▾

HEP Tycoon

Manage your own High Energy Physics laboratory

Laboratory name:

Enter the name of your lab

Accelerator type

☐ Linear particle collider

☐ Circular particle collider

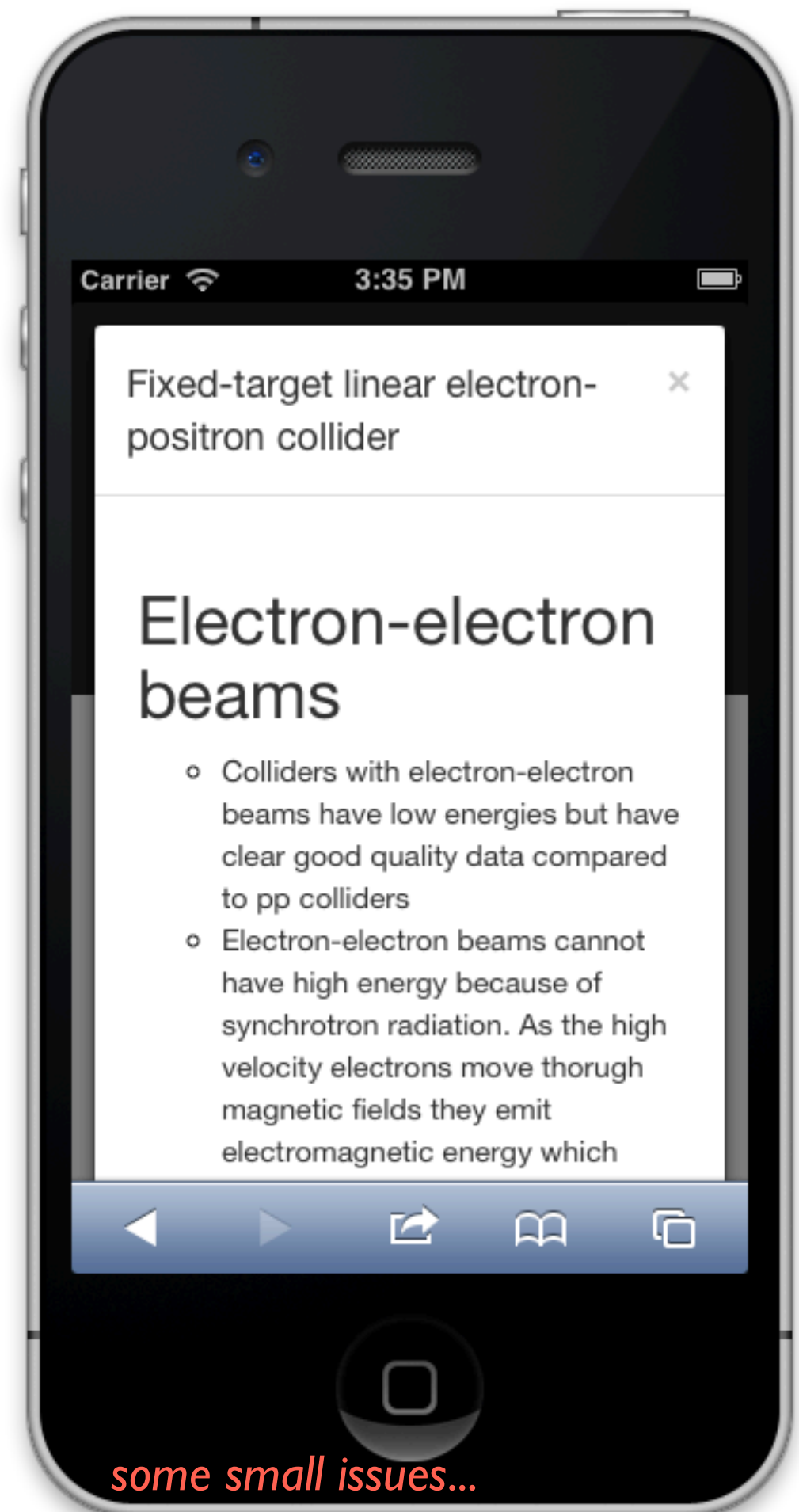
Particle types

☐ Electron-Positron collider

☐ Proton-Proton collider

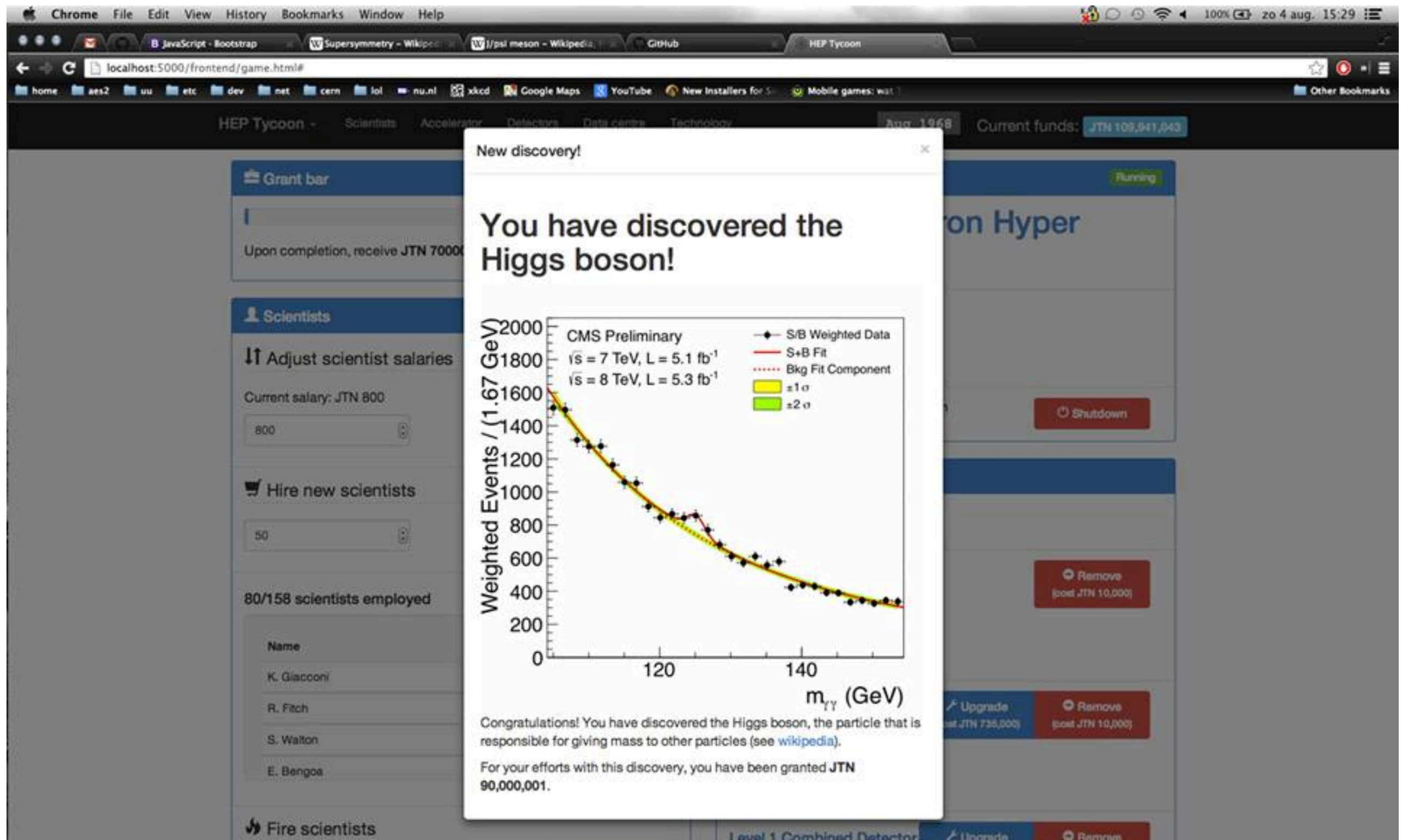
Let's do this!

Let's do this!



some small issues...

Finally...



Goals for the weekend

- ✓ • Simple prototype (very simplistic model of reality...)
- ✓ • Focus on core concepts
- ✓ • Extensibility (add depth and functionality later)


FUN!



What's next?

- **Short term:** balancing, fixes, PR
- **Long term:**
 - More features
 - More detail
 - More graphics
 - Multiplayer?

What can you do?

- **Play the game!** β : <http://dvdbng.com:5000>
- Get in touch with us
 - Report issues
 - Contribute code / ideas / ...
-  /kdungs/hep-tycoon (clone, fork, ...) **MIT License**
(open source)

Thank You!

And GitHub, Google (angular.js), Twitter (bootstrap)
as well as the people/teams who made Python,
jQuery, ...