


# Having fun at THE Port Hackathon@CERN Sophy team

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IT LIGHTNING TALKS  
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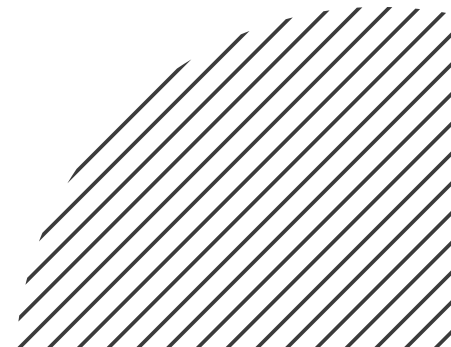
# THE Port Hackathon

- THE Port an association born at CERN
  - Hackathon - Problem-solving workshop
  - 8 topics (and 8 teams :)) in this edition
  - 6 weeks preparation + weekend 60 hour final hackathon to build working prototypes and tangible solutions for real-life humanitarian problems.
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# Pior 58: Sophy Team




- Our topic: Sonification & Gamification of Physiotherapy
- 1 coach + 3 mentors with expertise in the fields
- 6 participants from different countries with different backgrounds
- Hard work ( 2 prototypes) : Programming, electronic devices..
- Lots of fun!! :)

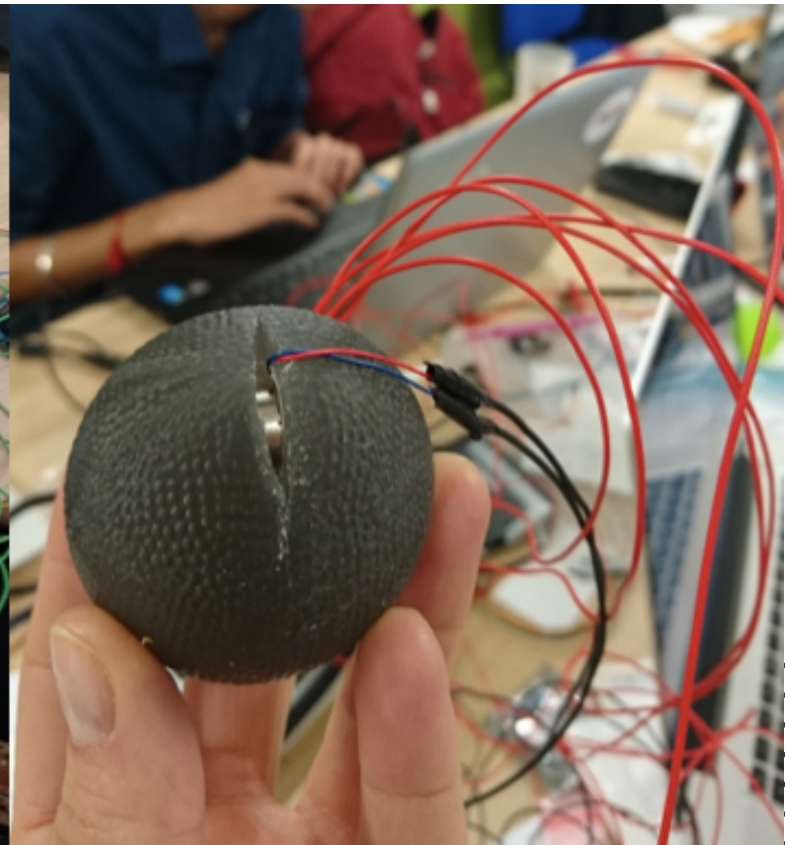


# Our problem

Challenge: To motivate patients to stick to the physiotherapy program routine when facing..

- Boredom
  - Lack of feedback
  - Social Isolation
  
  - ... but physiotherapy is one of the most powerful tools for maintaining physical health!
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# Our Solution





# Final prototype

## SOPHY

- Sonification
- Turns finger movement into music
- Quantifies key variables associated with performance
- Data can track performance over time networked, and informs physiotherapist of patients progress

## HAPHY

- Gamification
- Measures ball squeezing
- Measures ball orientation
- Provides vibration with desired performance interfaces with virtual reality for gamification
- Also provides data to the patient and the physiotherapist

# My impressions

- Amazing experience
- People brainstorming
- Very hard work (and time)
- Satisfactory results
- Lots of fun :)
- Looking forward to the next one!



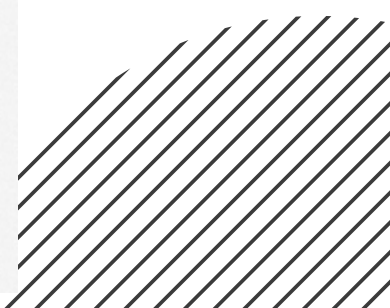


<http://theport.ch/home/the-port-2016/>

**Many thanks**

THE PORT 2016

14.10-16.10.2016 - IdeaSquare, CERN, Geneva, Switzerland





**QUESTIONS?**

