Running SWHAP:
the CMM and TAUMus case studies
TAUmus: why is it so interesting?
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• Developed in Pisa: fits well the SWHAP@Pisa project
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- Developed in Pisa: fits well the SWHAP@Pisa project
- Dedicated (and still existing) hardware
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TAUmus: why is it so interesting?

• Developed in Pisa: fits well the SWHAP@Pisa project
• Dedicated (and still existing) hardware
• A pioneeristic work
• Tons of related material (thanks to Leonello Tarabella)
Home art nowadays
An overview of Grossi's work

- Born in 1917 in Venice
- 1965: professor for the first electronic music course in Italy
- 1967: starts exploring computer music (first Olivetti, then CNUCE)
- 1970: first experiment on musical telematics
- 1975: deployment of TAU2/TAUmus system
- 1985: introduces the concept of Home Art
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• More info: https://www.pietrogrossi.org
The heritage of CMM
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- Developed at the University of Pisa by Prof. Giuseppe Attardi
Tarabella's fonds of TAUmus

- Three main categories:
Tarabella's
fonds of
TAUmus

• Three main categories:
  • Papers and sketches
Tarabella's fonds of TAUmus

- Three main categories:
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  - Source code
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  - Project specifications
Different kinds of Source Code
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• FORTRAN listings:
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  • Code ran on the CNUCE's IBM 370
  • These are (part of) the code of the TAUmus interpreter
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• TAUmus listings:
  • Hand-written, the actual code of music sessions
  • The interpreter was basically a terminal
  • The user could play music using the TAUmus commands
Attardi's CMM source code archive
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  - 8 versions
  - A compressed archive
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The process, instantiated

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- The directory structure is inherited from the SWHAP template
- From here, we performed the process's steps
The process, instantiated

- The same is done for CMM
The process, instantiated

• First we created the Depository
The process, instantiated

- First we created the Depository
- Here we have raw-material...
The process, instantiated

• First we created the Depository
• Here we have raw-material...
• ...and browsable-source
The process, instantiated

- First we created the Depository
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- Then we (re)created the development history
The process, instantiated

• First we created the Depository
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  • The SourceCode branch contains the versioned code
The process, instantiated

- First we created the Depository
  - Here we have raw-material...
  - ...and browsable-source
- Then we (re)created the development history
  - The SourceCode branch contains the versioned code
  - The development history can be seen by checking for releases
Spot the differences!
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• TAUMus: few code (FORTRAN listings and TAUMus scripts)
  • Both on paper!
  • Some extra work needed in order to digitally archive it
• CMM: the complete source code of the memory manager, archived by the creator and well versioned
  • The software is a complete and potentially running C++ program
Spot the differences!

<table>
<thead>
<tr>
<th>Name</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>attardi.ps</td>
<td>Updated README</td>
</tr>
<tr>
<td>cmm.tgz</td>
<td>Updated README</td>
</tr>
<tr>
<td>email_attardi.txt</td>
<td>Updated README</td>
</tr>
</tbody>
</table>
Spot the differences!
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- TAUMus: a huge amount of raw material
  - Photo, sketches...
  - All of it tells the story of the software
- CMM: few raw material
  - The story of the software is narrated by the software itself
TAUmus lives back!

Thanks to Massimo Magrini, Signal and Image Laboratory, CNR
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Thank you!