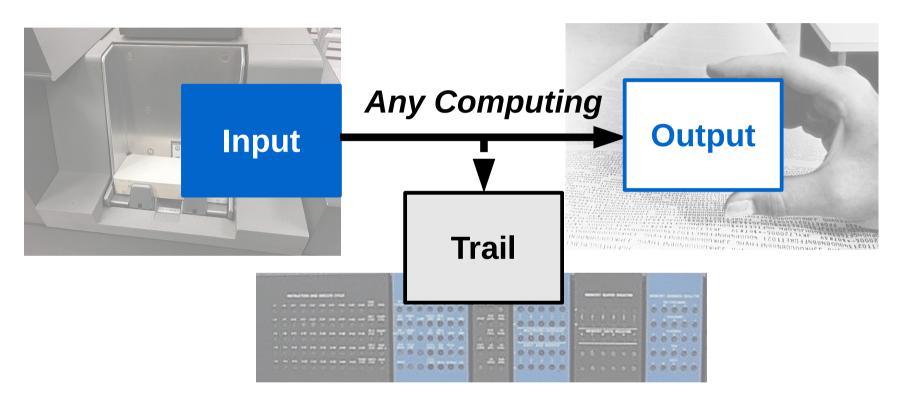
from computing to interaction

social contracts for smart networks

part I



What is possible to achieve by mechanical means?





Computing **Output** is a **function** of **Input** if and only if

it terminates and has no error in Trail



Emergence of interaction



Spreadsheets →

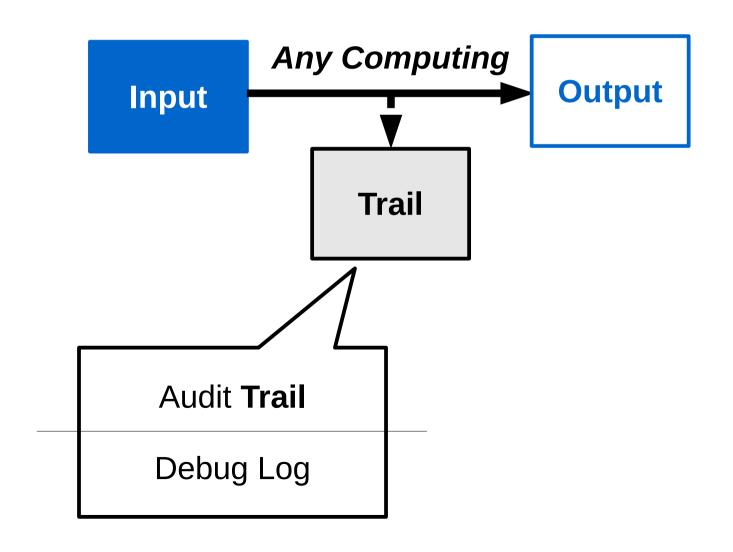
Pain of interaction

« Interaction machines have been criticized as an unnecessary Kuhnian paradigm shift. But Gödel, Church, Turing, and more recently Milner, Wegner and Van Leeuwen have argued that this is not the case. » Computation Beyond Turing Machines – P.Wegner, 1993

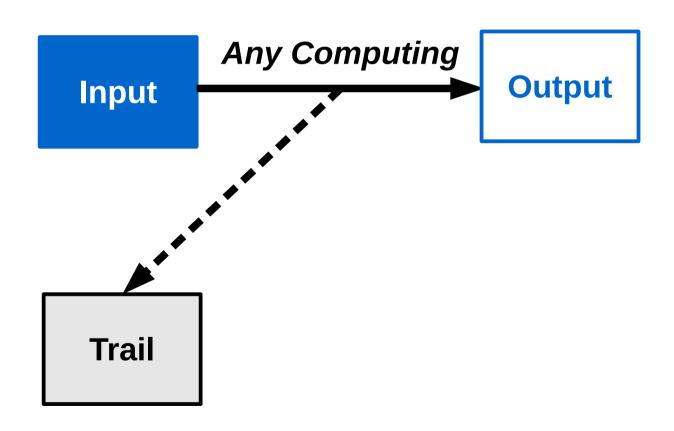
Complex theoritical issue

To solve that issue → Reverse the computational model

Get the computational model



Push it on the right



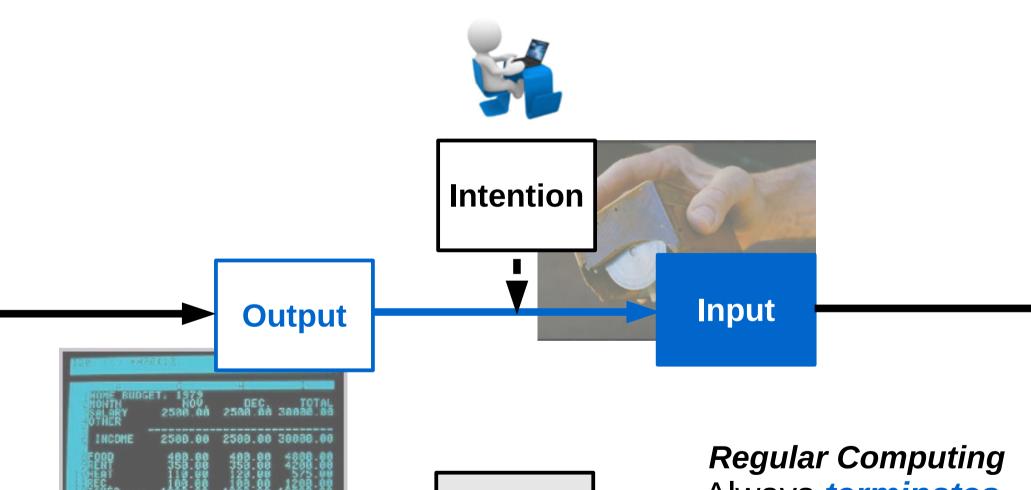
through the edge reversal...







Our spreadsheet interaction model

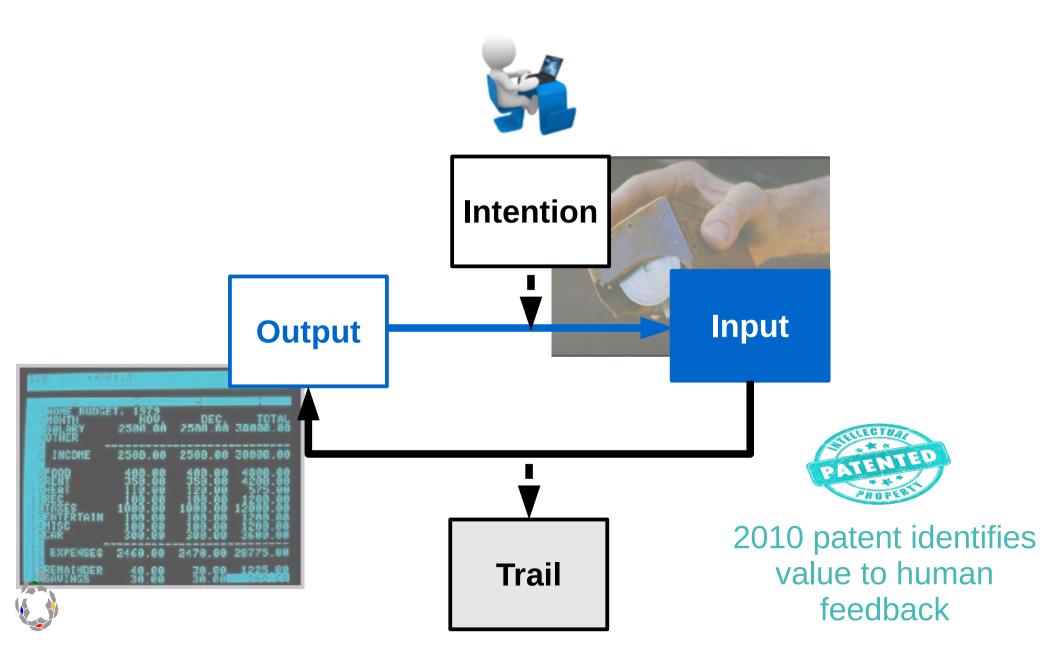


Trail

Always terminates
with no error

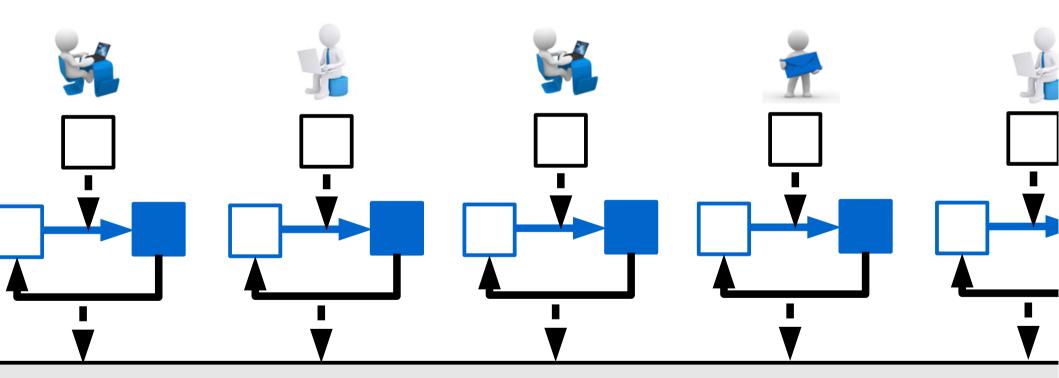


Our Regular Interactive Model



Can be replicated ad libitum...

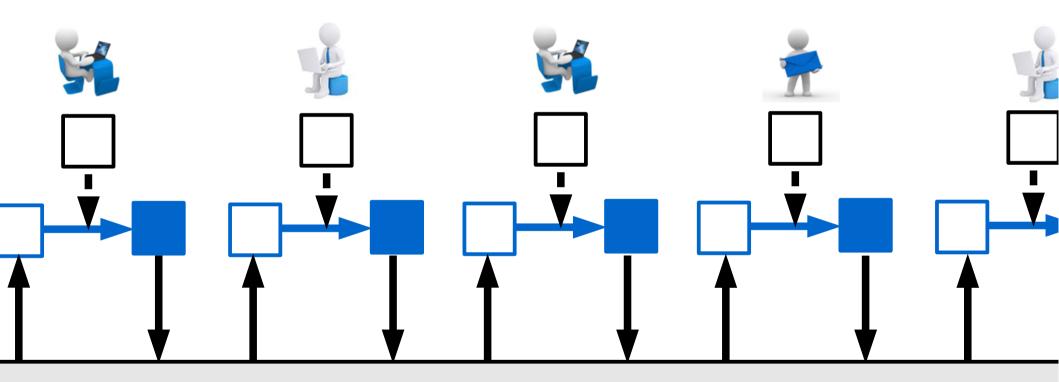
→ with no possible interaction between users





Regular Cooperative Model

→ what if the trail was the « story » of all inputs?





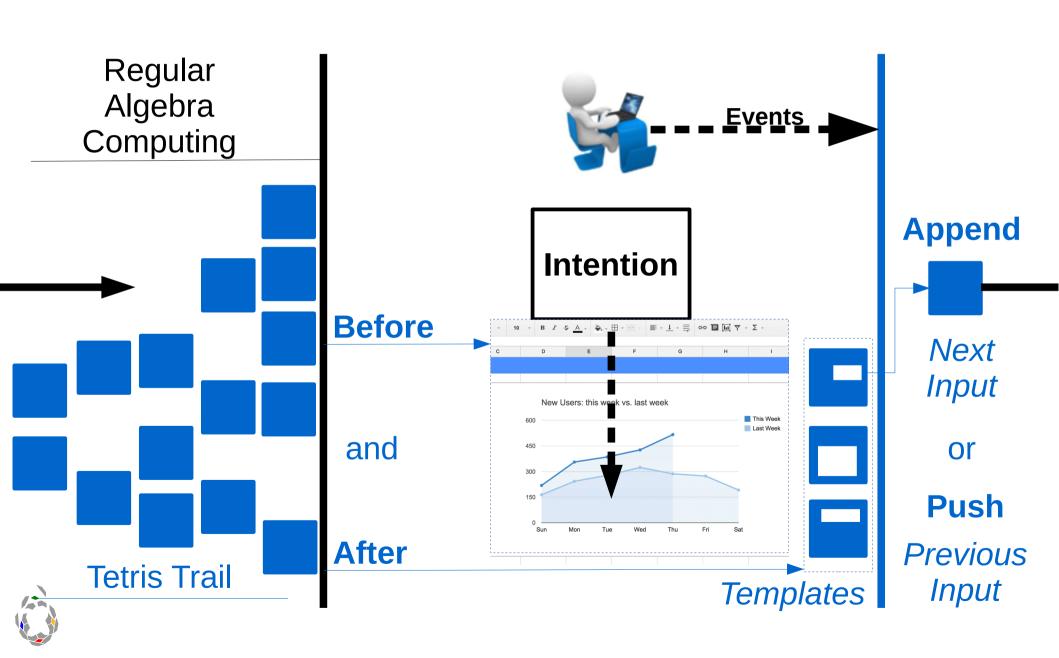
Regular Trail Computing

- Every appended input of any user is:
 - Timestamped and Signed
 - Never replicated nor altered
 - Stored for eternity when pushed by others as « coins »
- Any output presented to any user :
 - Issued from a regular computing on the Trail of all appended inputs with respect to user's intention:

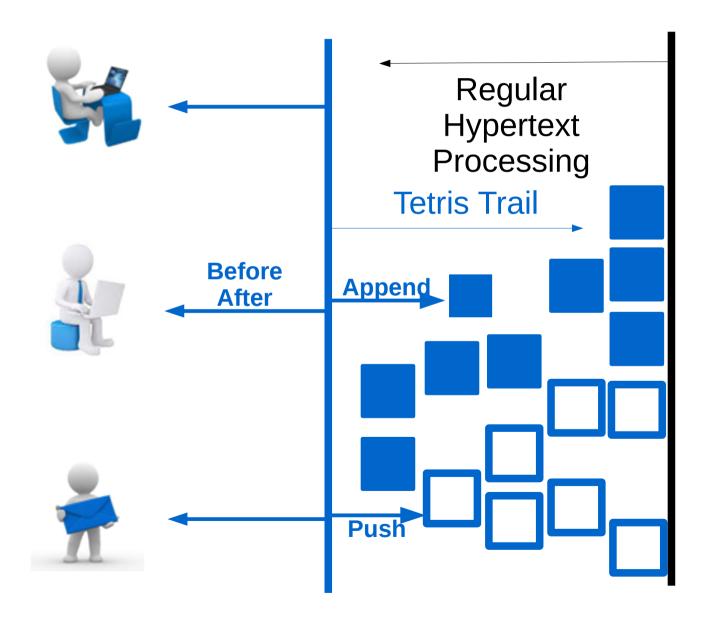
- Output embeds a set of elements to be displayed or printed called before
- Output embeds a set of templates issuing next input from user events when displayed, named after.



Regular Programming Interface

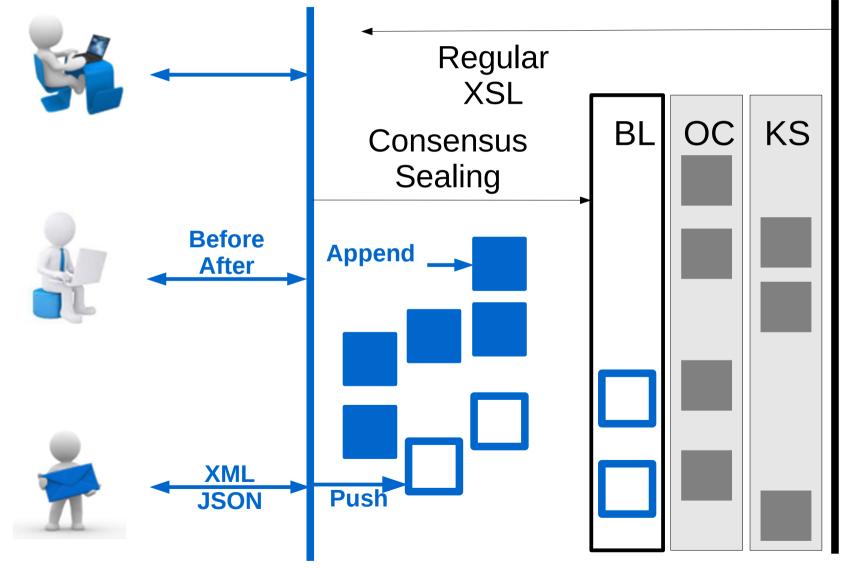


Regular Cooperative Hypertext





Regular Blockchain Hypertext





Regular Blockchain Hypertext

Our technology allows great numbers of users, distributed over the internet to :

- Share feedbacks on the same spreadsheets
- Agree on « valuable feedbacks » (= coins)
- Keep record of all coins no crypto-currency
- Publish spreadsheets without divulging coins
- Certifiate any spreadsheet with its coins

Method for **partial** learning **sharing** of a software application.

WO 2012076477 A1

Regular Blockchain Hypertext for spreadsheets and smartcontracts will be delivered in 2018.

Its use will be **extended to any document** in 2019 and then to any content (3D, video, sound, data lakes, ...).



