

INTRODUCTION: ECONOMY OF THE BODY; ECONOMY OF THE MACHINE

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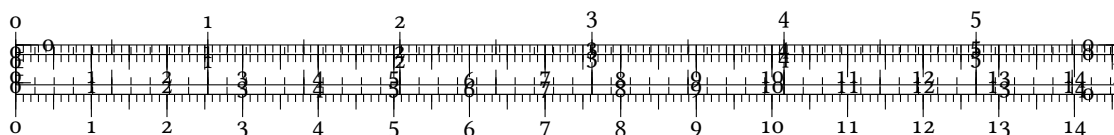
Vatin: Le travail et ses valeurs

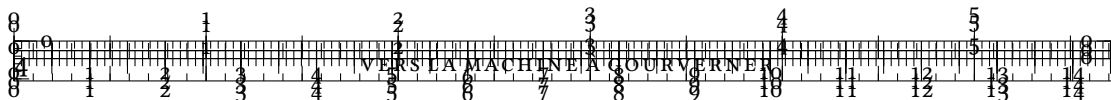
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1.1 ACCROCHE: THE VAGARIES OF THE CONCEPT OF WORK

1.2 PROBLEMATIQUE: SOCIETY AND NATURE, RETHINKING WORK IN THE 21ST CENTURY

1.3 STRUCTURE OF THE THESIS





ponts”. French. In: *Bulletin de la Sabix* 48 (2011), pp. 5–13.

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Firmin Didot: Note sur la publication proposée par le gouvernement anglais des grandes tables logarithmiques et trigonométriques de M. de Prony

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Jean-Louis Peaucelle. “Un « éléphant blanc » en pleine Révolution Française. Les grandes tables de logarithmes de Prony comme substitut au cadastre !” French. In : *Annales des Mines - Gérer et comprendre* 107.1 (2012), pp. 74–86.

Picon et al. : Gaspard Riche de Prony ou le génie appliquée

Antoine Picon, Yves Chicoteau, and Catherine Rochant. “Gaspard Riche de Prony ou le génie appliquée”. In : *Culture Technique* 12 (1984), pp. 171–183.

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Denis Roegel. *The Great Logarithmic and Trigonometric Tables of the French Cadastre. A Preliminary Investigation*. French. report. Nancy : Laboratoire lorrain de recherche en informatique et ses applications, 2011.

Ycart : La manufacture à logarithmes comme des épingles

Bernard Ycart. “La manufacture à logarithmes comme des épingles”. French. PowerPoint File. Université de Grenoble.

2.2.1 Short historical context

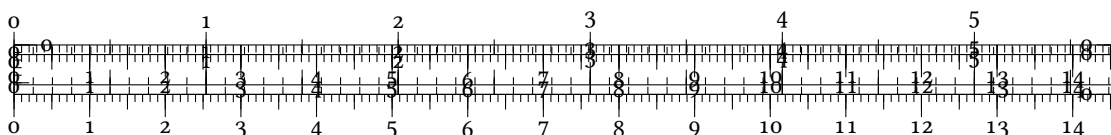
Describe the way de Prony’s project was interpreted in the context of the French revolution. This is how is done

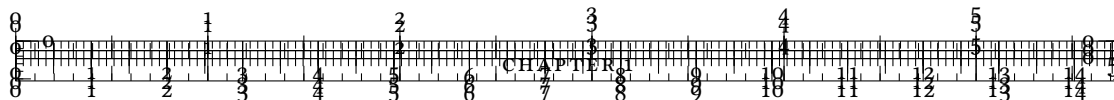
2.2.2 Short technical description

What was de Prony actually doing

2.3 CAN MACHINE LABOR REPLACE HUMAN LABOR ?

This section describes the reading that Charles Babbage makes of de Prony.





Babbage : On the Economy of Machinery and Manufactures

2.4 CHAPTER CONCLUSION

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Dasgupta : It Began with Babbage

Subrata Dasgupta. *It Began with Babbage. The Genesis of Computer Science*. Oxford University Press, 2014.

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G. Miller : Charles Babbage and the Design of Intelligence

Gordon Miller. "Charles Babbage and the Design of Intelligence. Computers and Society in 19th-Century England". In : *Bulletin of Science, Technology & Society* 10.2 (1990), pp. 68–76.

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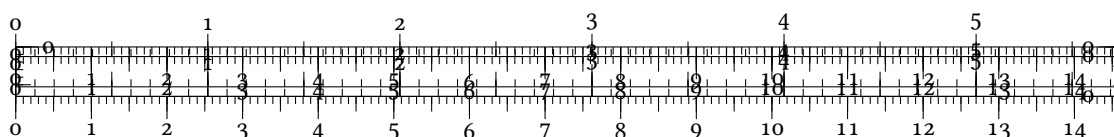
Louise Purbrick. "The Dream Machine. Charles Babbage and His Imaginary Computers". In : *Journal of Design History* 6.1 (1993), pp. 9–23.

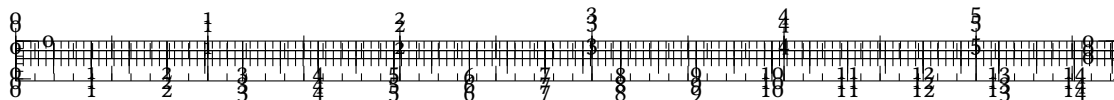
Romano : The Economic Ideas of Charles Babbage

Richard Romano. "The Economic Ideas of Charles Babbage". In : *History of Political Economy* 14.3 (1982), pp. 385–405.

Schaffer : Babbage's Intelligence

Simon Schaffer. "Babbage's Intelligence. Calculating Engines and the Factory System". In : *Critical Inquiry* 21.1 (1994), pp. 203–227.





CHAPTER 2

3.1 HERBERT SIMON READS BABBAGE

This section discusses Herbert Simon's reading of Charles Babbage. If possible, we should look for Simon's reading of de Prony's project. After all, his article from 1958 discusses Babbage's citing of the project in his book on European manufactures.

This section should discuss how the description of the organization of work as a simple technical matter has undemocratic undertones.

It could be interesting to look at what he has written on the organization of the workplace by machines and artificial intelligence. Should we be able to draw a parallel between his writing on organization and his views on democracy, we are all set.

Crowther-Heyck : George A. Miller, Language, and the Computer Metaphor of Mind

Hunter Crowther-Heyck. "George A. Miller, Language, and the Computer Metaphor of Mind". In : *History of Psychology* 2.1 (1999), pp. 37–64.

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Gerd Gigerenzer and Daniel G. Goldstein. "Mind as Computer. Birth of a Metaphor". In : *Creativity Research Journal* 9.2 (1996), pp. 131–144.

Marshall : Minds, Machines and Metaphors

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Simon : Discovering Explanations

Herbert Simon. "Discovering Explanations". In : *Minds and Machines*. The Great Operation 8 (1998), pp. 7–37. Box : 71, folder : 5458, HSCM.

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Herbert Simon. "Rational Decision-making in Business Organizations". In : *Nobel Lectures. Economics 1969–1980*. Nobel Memorial Lecture (Dec. 8, 1978). Ed. by Assar Lindbeck. Singapore : World Scientific Publishing Co., 1992, pp. 343–371.

Simon : The Patterned Matter that is Mind

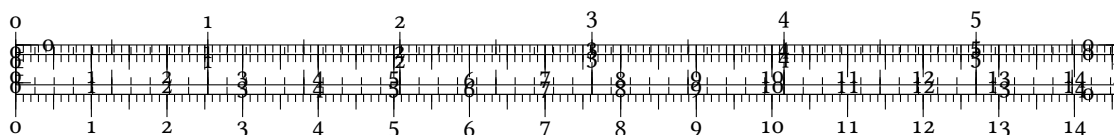
Herbert Simon. "The Patterned Matter that is Mind". In : *Mind matters : A tribute to Allen Newell. Carnegie Mellon Symposia on Cognition*. Ed. by D. M. Steiner and T. M. Mitchell. Mahwah : Erlbaum Associates, 1996. Chap. 11, pp. 407–431.

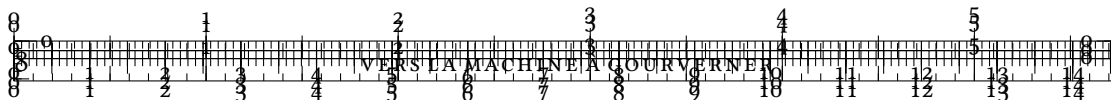
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Herbert Simon and Allen Newell. "Heuristic Problem Solving : The Next Advance in Operations Research". In : *Operations Research* 6.1 (1958), pp. 1–10.

Waring : Taylorism Transformed : Scientific Management Theory Since 1945

Stephen Waring. *Taylorism Transformed : Scientific Management Theory Since 1945*. The University of North Carolina Press, 1994.





3.2 SIMON ON ORGANIZATION

Heyck : Defining the Computer : Herbert Simon and the Bureaucratic Mind—Part 1

Hunter Heyck. "Defining the Computer : Herbert Simon and the Bureaucratic Mind—Part 1". In : *Annals of the History of Computing*, IEEE 30.2 (2008), pp. 42–51.

Heyck : Defining the Computer : Herbert Simon and the Bureaucratic Mind—Part 2

Hunter Heyck. "Defining the Computer : Herbert Simon and the Bureaucratic Mind—Part 2". In : *Annals of the History of Computing*, IEEE 30.2 (2008), pp. 52–63.

Simon : Administrative Behavior : A Study of Decision-Making Processes in Administrative Organizations

Herbert Simon. *Administrative Behavior : A Study of Decision-Making Processes in Administrative Organizations*. 4th ed. The Free Press, 1945.

Simon : Artificial Intelligence : Where Has It Been, and Where is it Going?

Herbert Simon. "Artificial Intelligence : Where Has It Been, and Where is it Going?" In : *IEEE Transactions on Knowledge and Data Engineering* 3.2 (1991), pp. 128–136.

3.3 WHAT IS INDUSTRIAL DEMOCRACY?

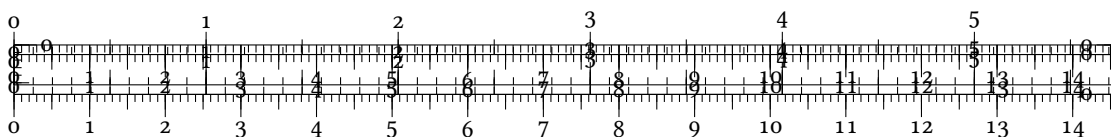
Has Simon discussed the issue of democracy at the workplace besides the one article on industrial democracy?

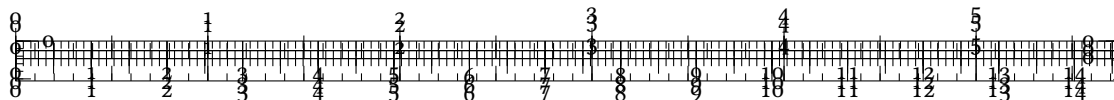
I want to talk about economic democracy as Alain Supiot does.

Simon : What is Industrial Democracy?

Herbert Simon. "What is Industrial Democracy?"
In : *Challenge* (January-February 1983), pp. 30-39.

3.4 CHAPTER CONCLUSION





CONCLUSION

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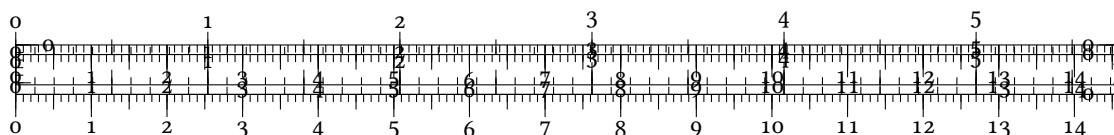
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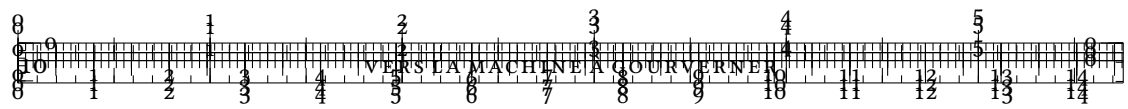
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