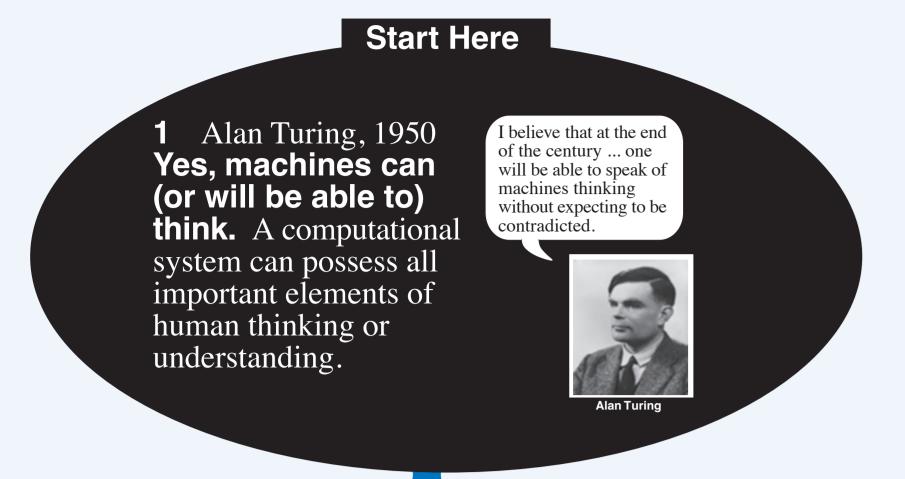
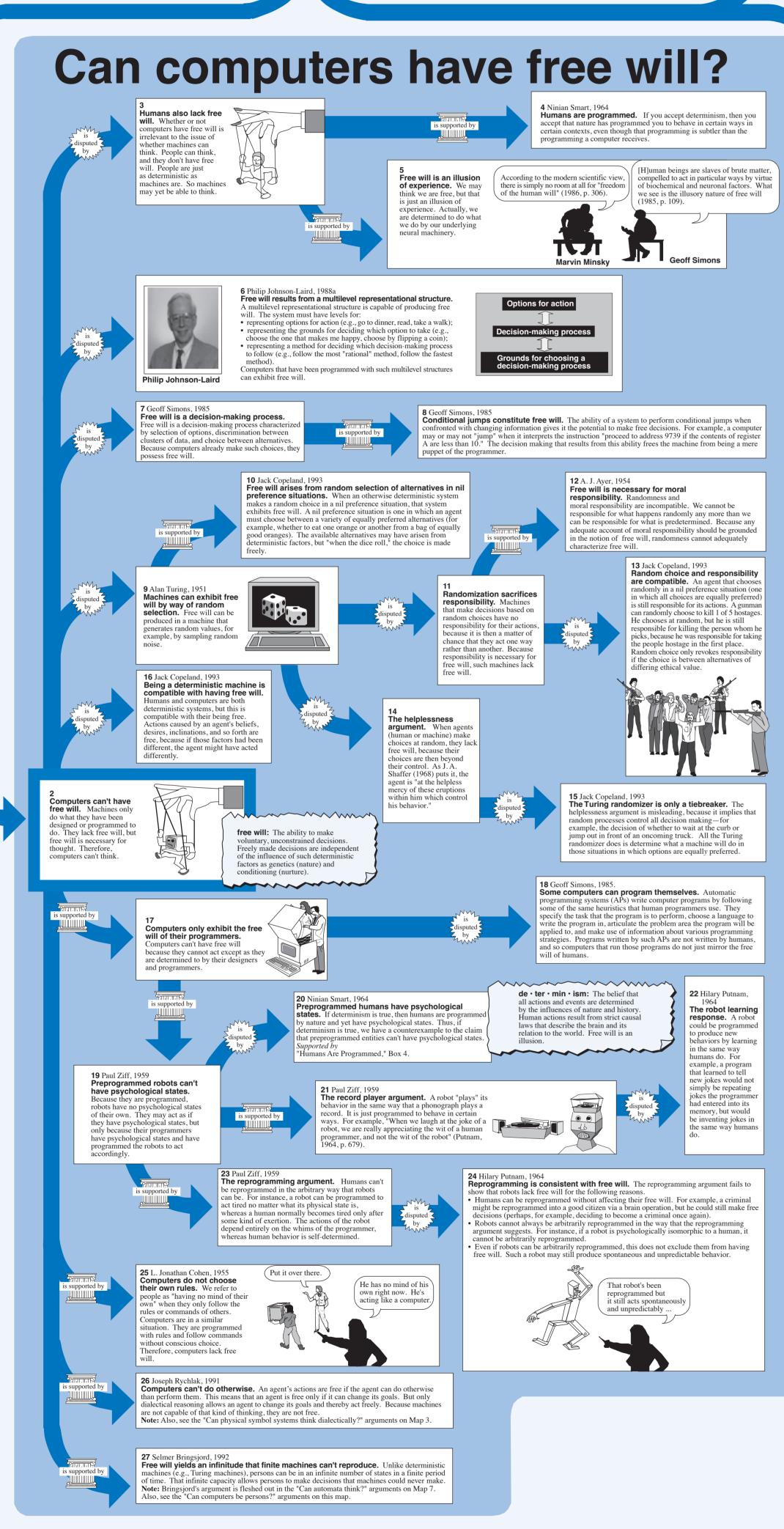
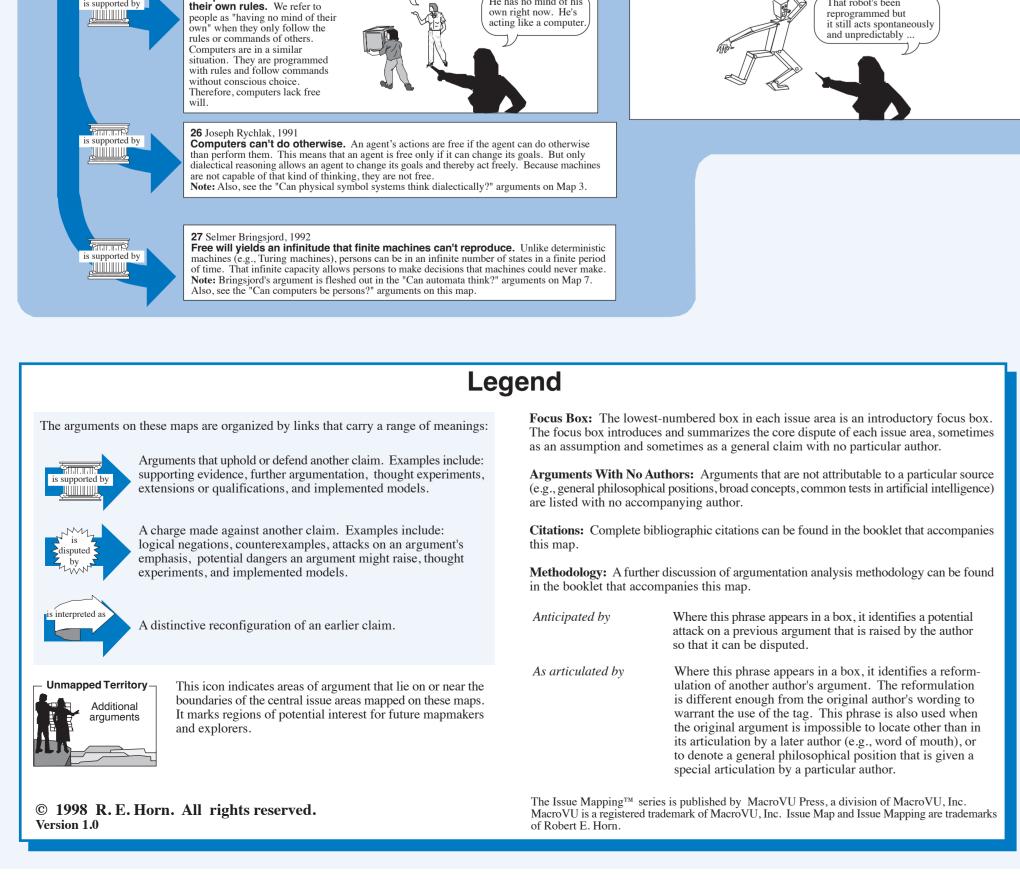
1) Can Computers Think?

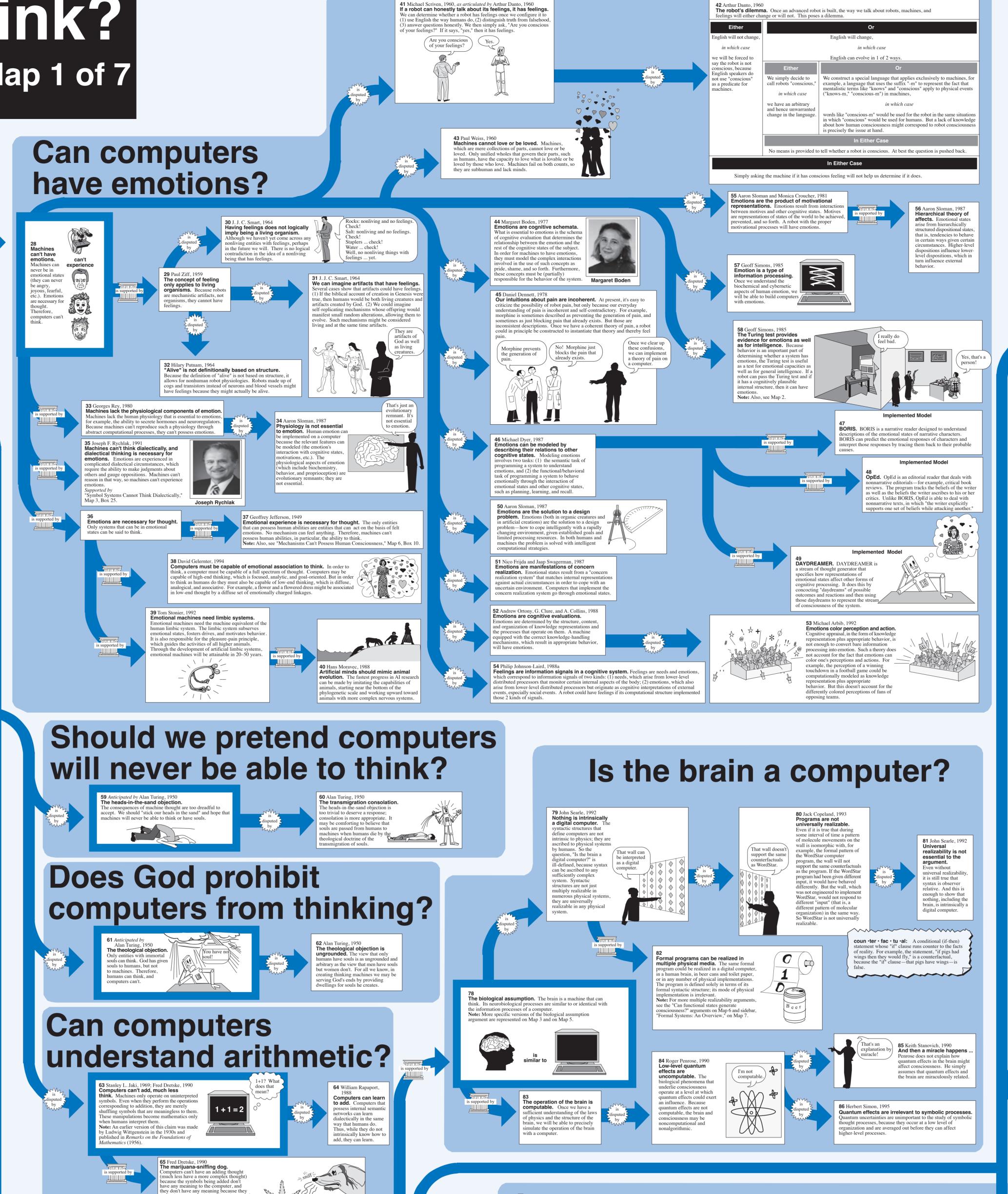
The History and Status of the Debate — Map 1 of 7

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t's been trained to do so, not because the

Can computers draw analogies?

Computers can't understand analogies. Computers

Paul Thagard, 1989 **ACME.** ACME is a

and Douglas Hofstadter,

ACME doesn't understand

analogy. ACME's claim to

understand analogies is overblown. All ACME does i

ompare them. For example

the extent that it understand

o (A(B)), (C(D))."

Socrates is like a midwife" to

nnectionist network that

ACME network uses structural,

constraints to seek out those

nalogical mappings. The

Computers have

understood analog

Existing models hav

understood analogies.

Implemented Model

hat discovers analogies using :

change as the model runs, (2) a

that acts like a short-term memory

out tasks in the workspace. COPYCAT is neither a symbol

network, though it draws on both paradigms. Representations are no

but are built up through fluid

high-level components.

delivered hand-tailored to the mode

nteractions between low-level and

and (3) a "coderack" of agents that

COPYCAT. COPYCAT is a model

Platonic concepts whose relations car

77 Douglas Hofstadter and

neaning of the smell causes it to wag its tail.

Implemented Model

between domains by a set of match rules. The analogies that result

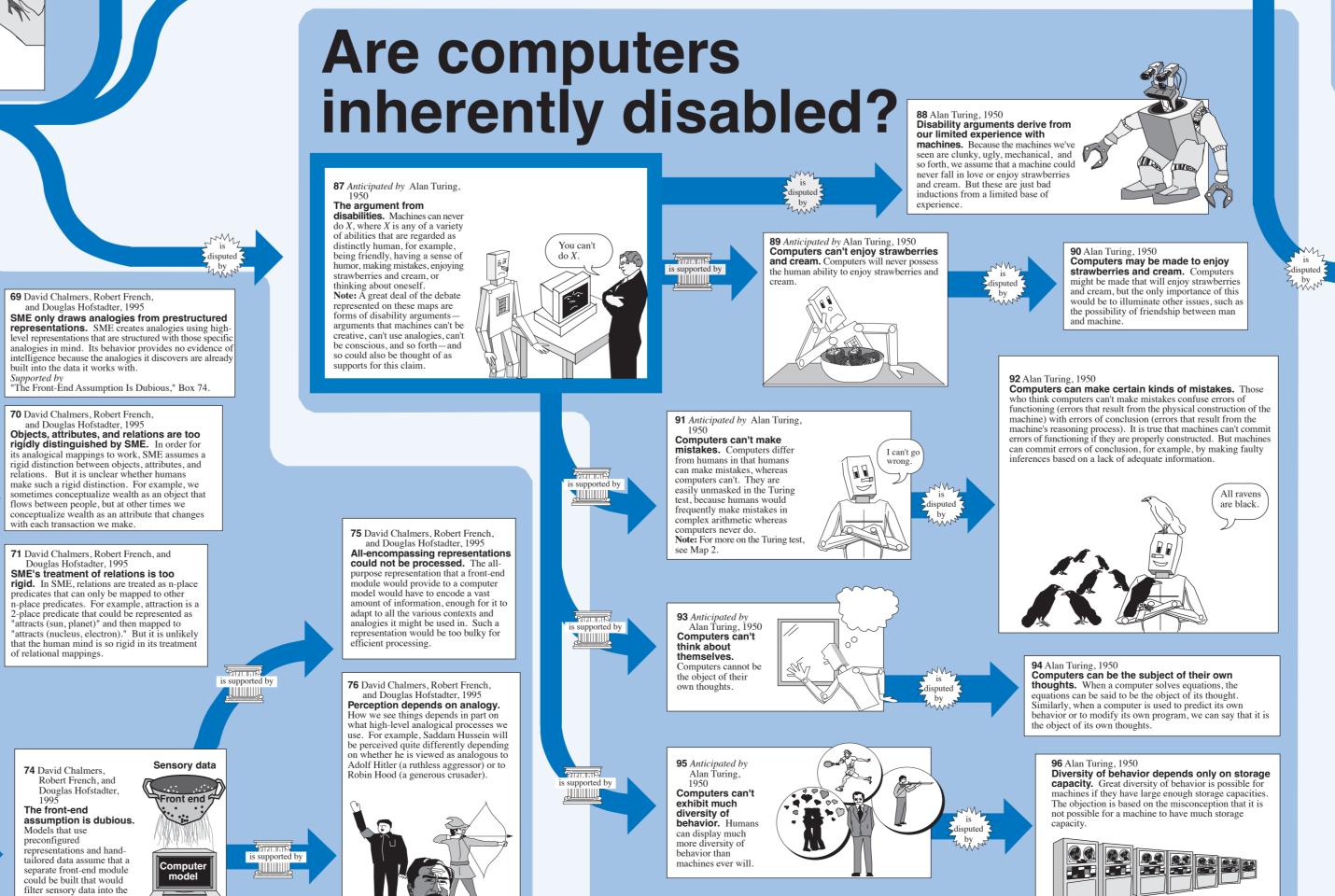
The front-end

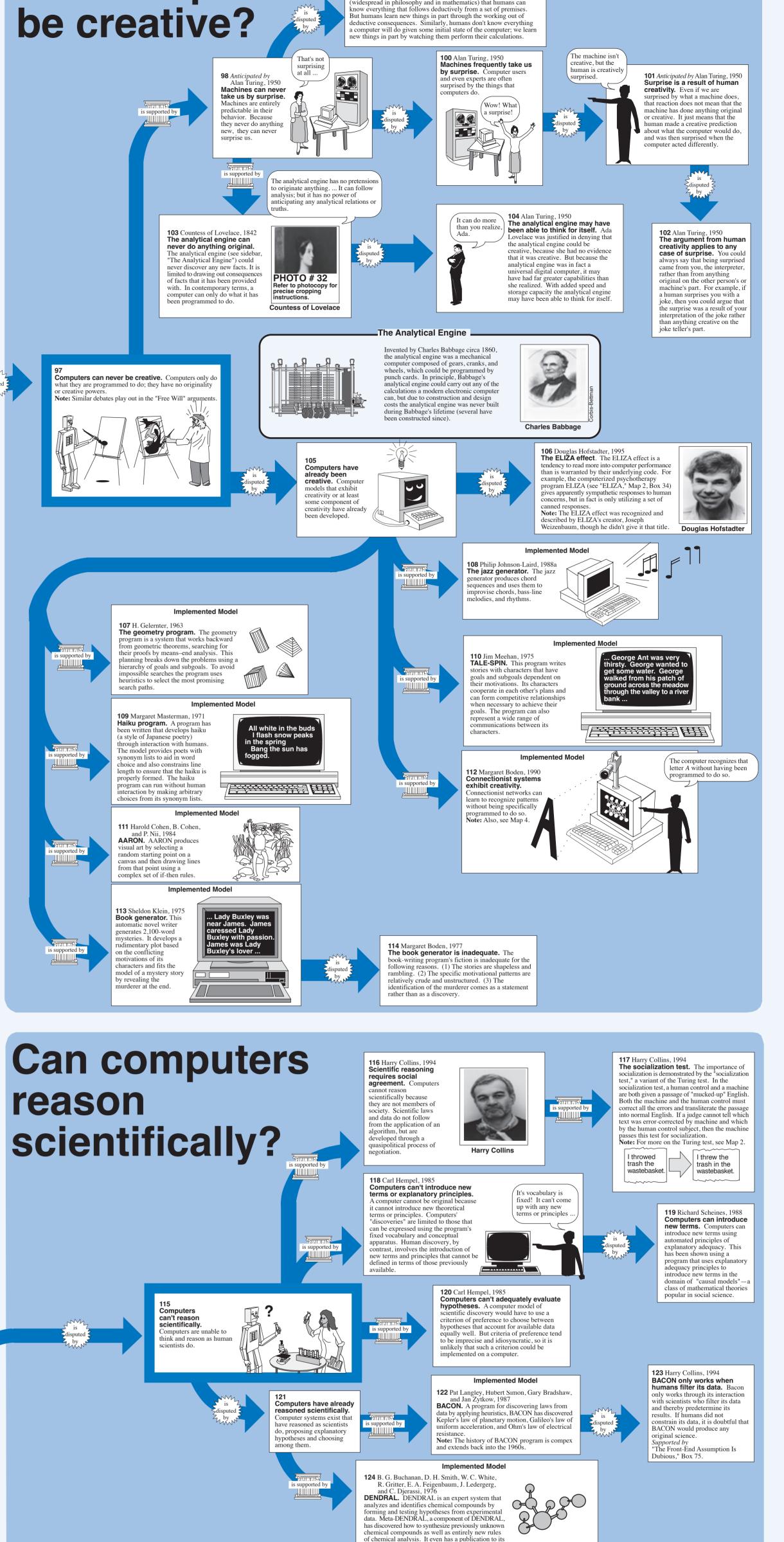
re judged according to the criteria of clarity, richness, abstract

88 Brian Falkenhaimer, K. Forbus, and D. Gentner, 1990 SME. SME is a structure-mapping engine that discovers ar

v, solar systems and atoms, and in other domains.

Implemented Model





computer will do given some initial state of the computer; we learn

Can computers



behavior is required for

be capable of treating

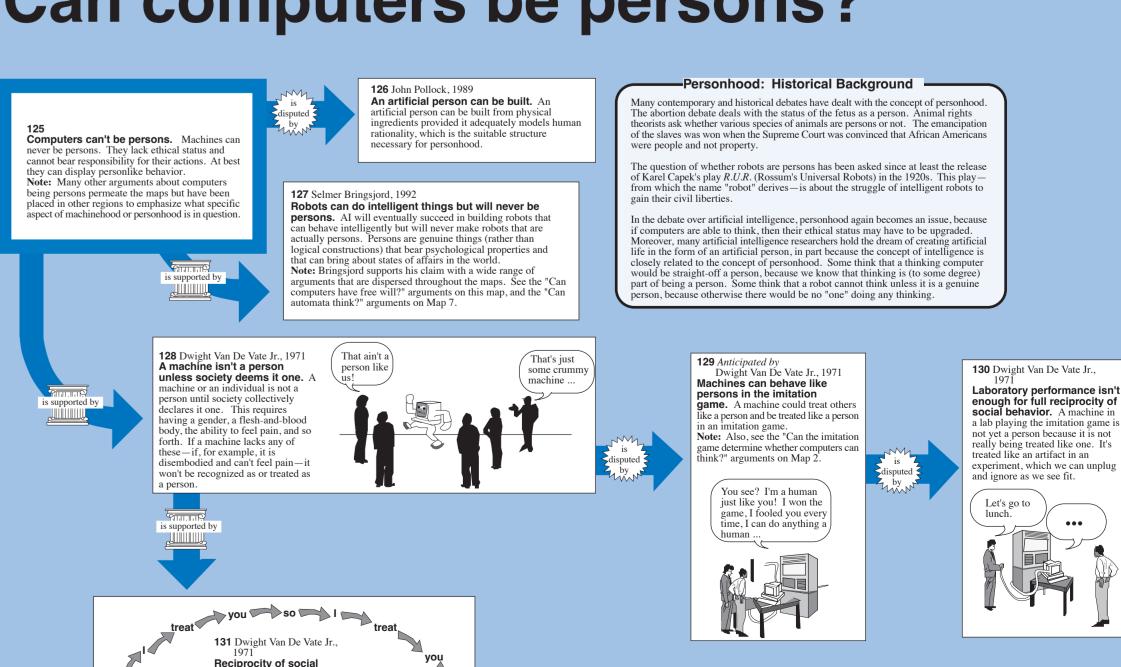
others like persons in a

• be treated like a person by

members of society in a

variety of contexts.

you so me



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