

Principle of Artificial Intelligence (305450)

Administrative

- Course home page:
http://www.ecpe.nu.ac.th/woralak/public_html/AI/AI.html
 - For lecture notes, assignments, exams, grading, office hours, etc.

Readings

- Lecture notes
- Russell, Stuart J., and Peter Norvig.
Artificial intelligence: a modern approach.
2nd edition. Upper Saddle River, NJ:
Prentice Hall, 2003. ISBN: 0137903952.

Assessment

- Assignments: 35%
- Midterm Exam: 25%
- Final Exam: 40%

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Course Outline (tentative)

- Introduction
- Problem Solving by Search
 - Uninformed Search
 - Informed Search
 - Constraint Satisfaction
- Machine Learning
 - Decision Trees
 - Bayesian
 - Rule-based
 - Nearest Neighbors
- Knowledge Representation
 - DAML
 - Web Ontology
 - RDF

What is AI?

“[The automation of] activities that we associate with human thinking, activities, such as decision-making, problem solving, learning ...”
(Bellman, 1978)

“The study of mental faculties through the use of computational models” (Charniak&McDermott, 1985)

“The study of how to make computers do things at which, at the moment, people are better” (Rich&Knight, 1991)

“The branch of computer science that is concerned with the automation of intelligent behavior”
(Luger&Stubblefield, 1993)

View of AI fall into four categories

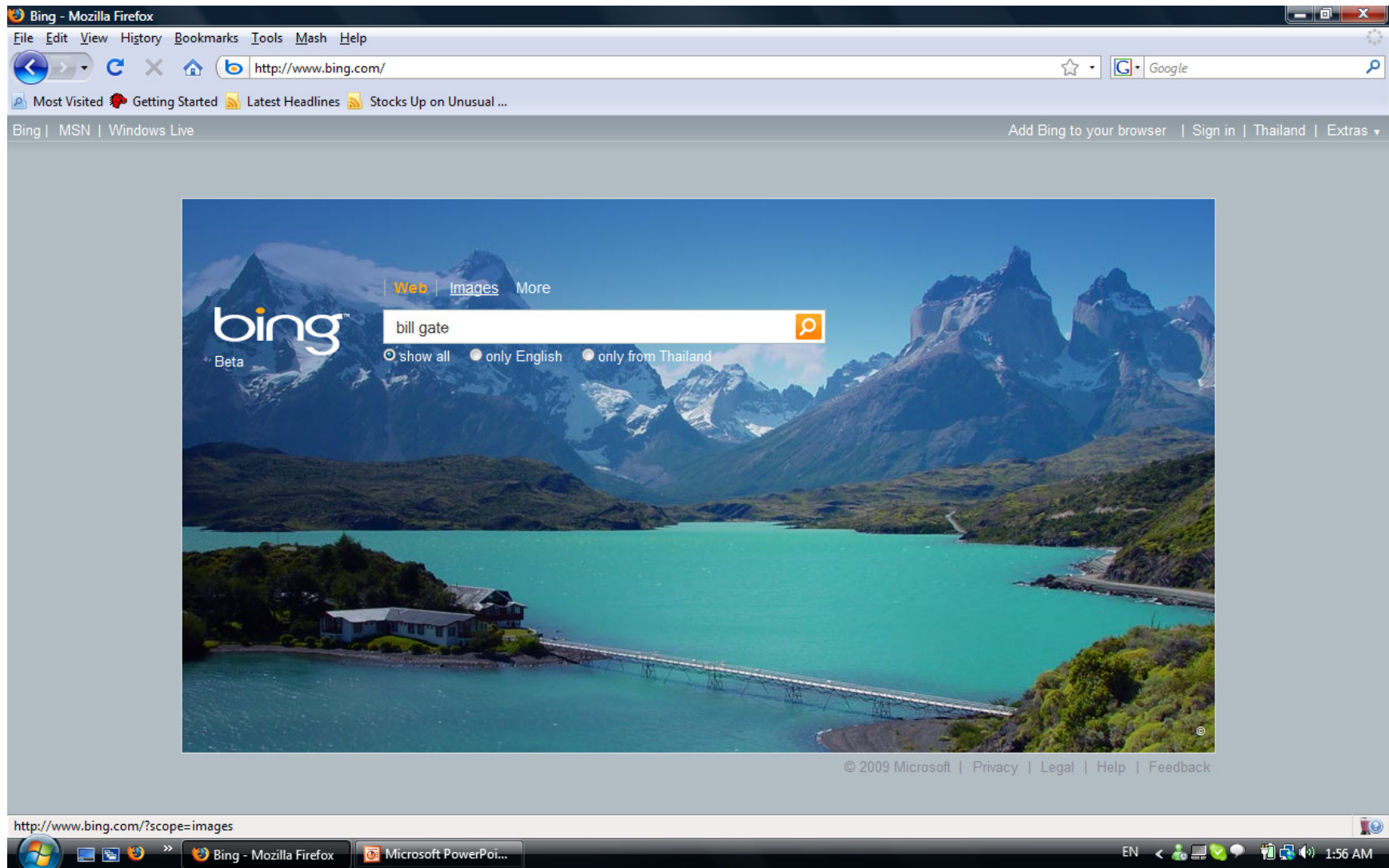
Thinking humanly

Thinking rationally

Acting humanly

Acting rationally

Sample Applications



Sample Applications

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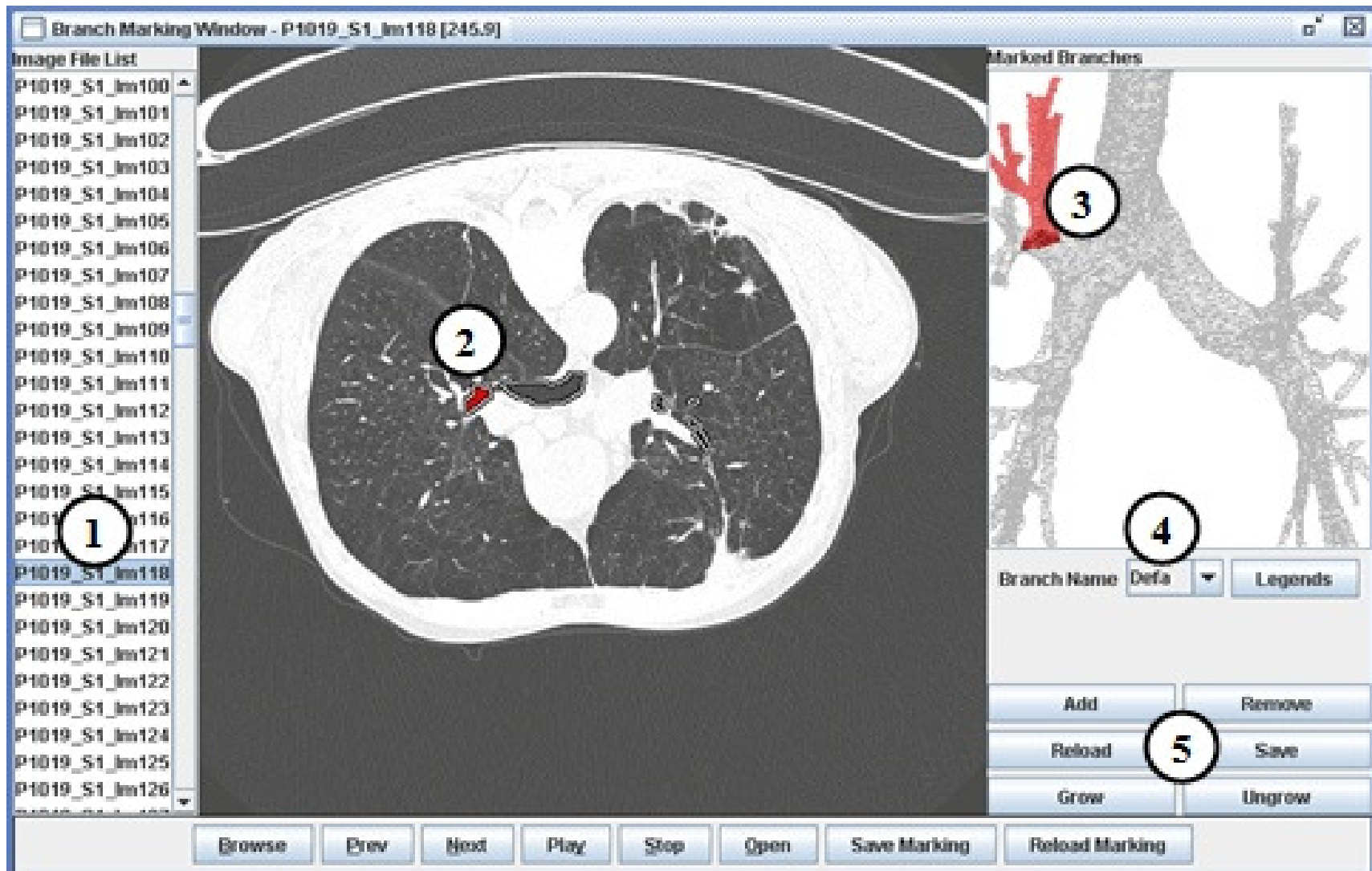
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Sample Applications



Sample Applications

