Welcome to...

...CS 42!

...CS 1g!

...CS OMG!
thanks, Prof. Van Ryswyk!

...CS 5+60!

...CS 2a!

...CS 101010!

...CS 6*7!

...CS !
What Is Computer Science?

What does a computer scientist do?

What are the parts or components of computer science?

What is not computer science?
Room Coverage

https://lh3.ggpht.com/-bgG1v8KK3tg/Tr-7Lt8zUqI/AAAAAAAAGCA/aqs69ExfnKI/s640/irobot-roomba-560.jpg
Room Coverage
Picobot moves according to a set of rules:

<table>
<thead>
<tr>
<th>state</th>
<th>surroundings</th>
<th>direction</th>
<th>new state</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>xxWS</td>
<td>N</td>
<td>0</td>
</tr>
</tbody>
</table>

If I'm in state 0 seeing xxWS,

Then I move North, and change to state 0.
Wildcards

Asterisks * are wild cards.
They match walls or empty space:

I am in state 0.
My surroundings are x\times WS.

Aha! This matches x***

and EWS may be wall or empty space

N must be empty
Room Coverage?
Room Coverage?
Fall 2013
CS 42: Principles and Practice of Computer Science

TTh 8:10am – 9:35am in SHAN 2440
Piazza • Syllabus

Tuesday Thursday

Racket
Prolog
Assembly
Python
Java
Theory of Computation

5 + 60
breadth
depth
machine
math
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