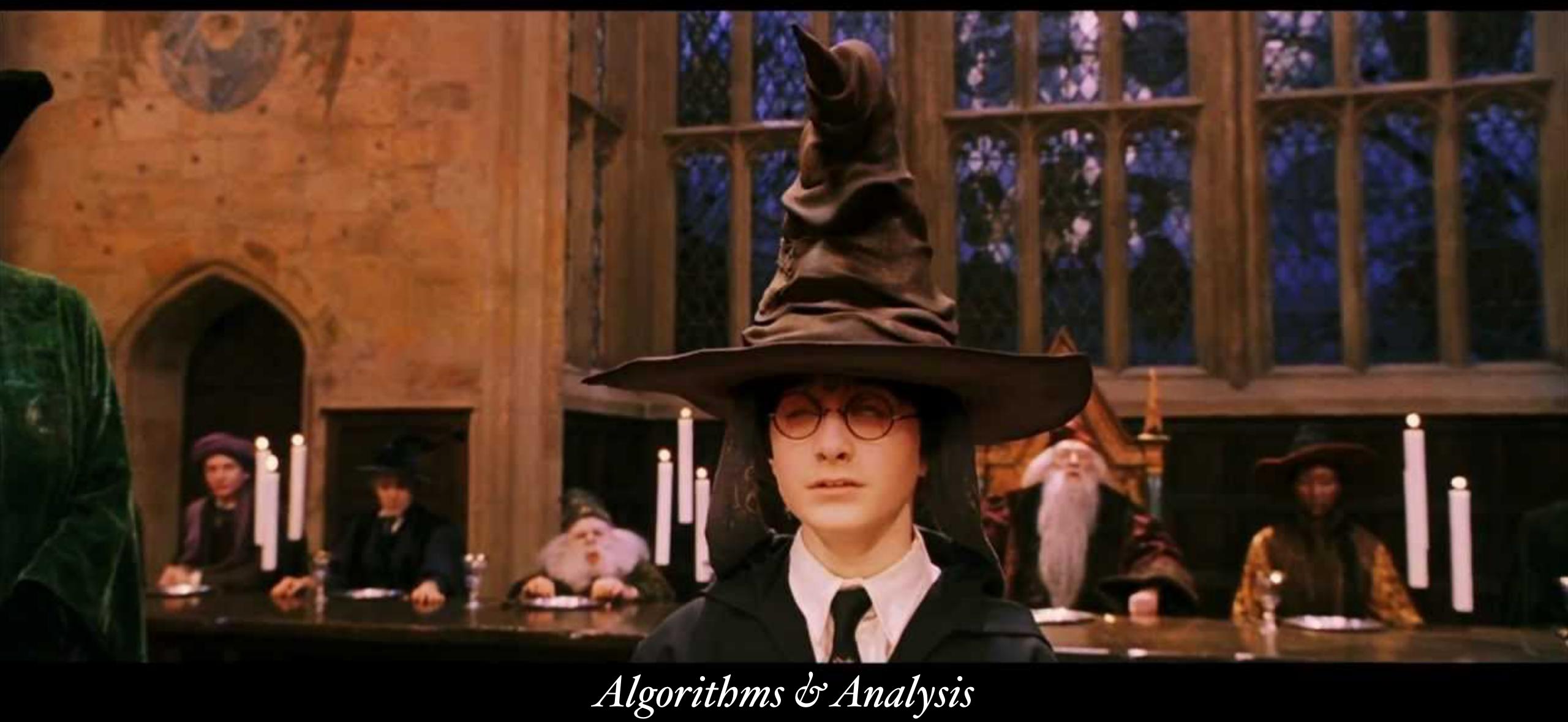
# SOTNIRG



"By understanding sorting, we obtain an amazing amount of power to solve other problems."

- STEVEN SKIENA, THE ALGORITHM DESIGN MANUAL

### (Some) Classic Sorting Algorithms

- Bubble
- Selection
- Insertion
- Merge: 1945 Jon von Neumann
- Quick: 1959 Tony Hoare
- Heap: 1964 J. W. J. Williams
- Radix: 1887 Hermann Hollerith, for his Tabulating Machine
- Bogo?

#### Bubble Sort

- I. Loop over elements
- 2. Swap anything that's out of order
- 3. Repeat 1-2 until there are no swaps

**SORTING** 

#### **Bubble Sort**

6 5 3 1 8 7 2 4

## Big O

