## Theory of Computation

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## REs in UNIX/Linux

- ► ASCII: alphabet with 128 symbols
- ► Symbol '.' means "any char"
- ► [abcd] means a+b+c+d
- ► [A-Z] means all the uppercase letters
- "|" means "+"
- "?" means 0 or 1 of
- "\*" means 0 or more
- "+" means 1 or more
- ► {n} means n copies of
- Search using REs in the utility grep (global regular expression and print)

## Exercise 3 (homework)

- ► Write a regular expression (e.g., using the PCRE format, or the format used in UNIX/Linux grep) to
  - Search for phone numbers in a text
  - Search for codex codes (with number and locality) in a text

- ► PCRE (Perl Compatible Regular Expressions):
  - https://www.pcre.org/
  - https://pt.wikipedia.org/wiki/Perl Compatible Regular Expressions