

The background is a dark navy blue. It features several large, overlapping, semi-transparent geometric shapes in various colors: bright green, cyan, magenta, orange, and red. These shapes are arranged in a way that creates a sense of depth and movement, with some appearing to be layered on top of others. The overall aesthetic is modern and tech-oriented.

Wordle Solver

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Agenda

- › Background
- › What we built
- › Course Concepts
- › Implementation
- › Demo

What is wordle



<https://www.nj.com/entertainment/2022/04/wordle-290-april-5-todays-hints-clues-solution.html>

What we built

Program that guesses the word that user inputs
(like a person playing the word game)

1. UI
2. Scoring algorithm
3. Filter based on hints and narrows down the candidates

Scoring Algorithm

baby → b a b y

best → b e s t

tent → t e n t

land → l a n d

$$0.25 + 0.5 + 0.5 + 0.25 \rightarrow \text{score: } 1.5$$

returns one candidate word that has highest score

Filtering based on hints

answer: "TABLE"

guess: "PAPER"

Hints:

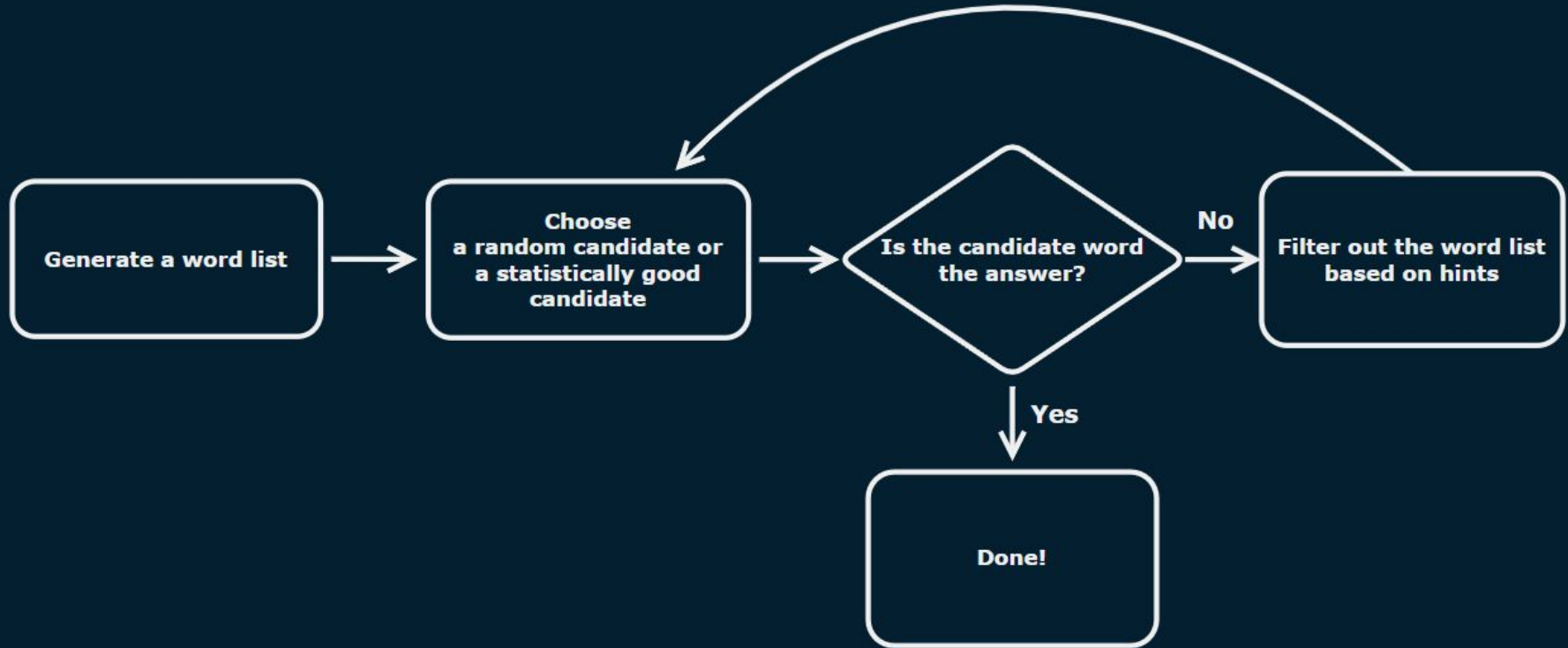
- "A" is the second letter of the answer
- "E" exists in answer, but not at the fourth letter
- "P" and "R" doesn't exist in answer

Filter out words from word list that doesn't satisfy the conditions of hints

Course Concepts

1. File Systems
2. Threads
3. Synchronizations

Implementations



Demo



Q&A

