Advanced JavaScript Callbacks, Promises & Async/Await

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Agenda

- 1. Callbacks
- 2. Promises
- 3. Async/Await

1. Callbacks

- Callbacks will be called when an asynchronous
 I/O function is done
- Problem: when multiple callbacks are nested, the code gets messy
 - "Callback Hell"

2. Promises

- Promises help to organize callbacks
- A promise is
 - an object, that represents an action that has not finished yet
 - a placeholder for the result of an asynchronous operation
- <u>eventual</u>, the result of an asynchronous operation

2. Promises

- A promise can have three states:
 - Pending Async op not done yet
 - Fulfilled Async op has completed and promise has a value
 - Rejected Async op has completed with an error or failed

3. Async/Await

Async/Await is syntactic sugar for promises