Cargo and Crates

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Cargo

- The Rust package manager and build system
- Library dependencies specified in Cargo.toml

Crate

- A Rust library/package
- Composed of one or more source files / modules
- Built using Cargo

crates.io

- Central repository containing crates
- Anyone can create a crate and upload to crates.io

- ▶ Crate names are unique and taken on first-come basis
- ▶ Published crates can't be removed/modified
- ▶ You can publish as many new versions as you like

Semantic Versioning (SemVer)

- Crate versions have to follow SemVer rules
- https://semver.org/

Publishing a crate

- Get an account on crates.io and acquire an API token
- Save the token to ∼/.cargo/credentials by running the command: "cargo login API_KEY".

Packaging the crate

- Use this command: "cargo package"
- Creates a *.crate file in target/packages
- Check the size of the file

Upload the crate

- Use "cargo publish" to publish the crate!