Shotten Totten project report

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SchottenTotten

build passing   lint passing   repo size 93.1 MB

Gameplay in Schotten Totten resembles simultaneous play of nine separate hands of poker, but where each hand has only three cards in it. There are nine "boundary" stones between players at the start of the game. Players vie to win five of the stones, or three adjacent ones, to win the game.

Download

```
git clone https://github.com/Dashstrom/SchottenTotten
```

Build requirements on Windows

Install Visual Studio Build Tools 2019 from visualstudio.microsoft.com Dont forget to add the "C++ Clang tools for Windows".

1. Add `C:\Program Files (x86)\Microsoft Visual Studio\2019\BuildTools\VC\Tools\Llvm\x64\bin` to `PATH`
2. Set `VCINSTALLDIR` to `C:\Program Files (x86)\Microsoft Visual Studio\2019\BuildTools\VC`

Download the Windows QT installer at qt.io

1. Make a personal installation and install `Qt6.5 MSVC` version and `CMAKE`.
2. Add `C:\Qt\Tools\CMake_64\bin` and `C:\Qt\6.5.0\msvc2019_64\bin` to your `PATH`

You can now build the project with :

```
cmake -B build -DCMAKE_BUILD_TYPE=Release; cmake --build build --config Release
.\build\Release\SchottenTotten.exe
```

Completion requirements :

Just add `C:\Qt\6.5.0\msvc2019_64\include`, `C:\Qt\6.5.0\msvc2019_64\include\QtCore` and `C:\Qt\6.5.0\msvc2019_64\include\QtWidgets` to your include path in your favorite IDE.

Build requirements on MacOS

Install brew

```
/bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/
    HEAD/install.sh)"
```

Install `cmake` and `qt6` :

```
brew install cmake qt6
```

Add the following to `~/.zshrc` or `~/.bashrc`:

```
export PATH="/opt/homebrew/opt/cmake/bin:/opt/homebrew/opt/qt6/bin:$PATH"
```

Build and run with :

```
cmake -B build -DCMAKE_BUILD_TYPE=Release; cmake --build build --config Release
./build/SchottenTotten.app/Contents/MacOS/SchottenTotten
```

Install commit requirements

Setup precommit for autoformat.

```
pip install pre-commit cpplint clang-format
pre-commit install
```

Build README.md as PDF (Linux only)

Run the next command and follow the inscrutions.

```
./docs/build.sh
```

Valgrind (Linux only)

```
sudo apt install valgrind
```

UML