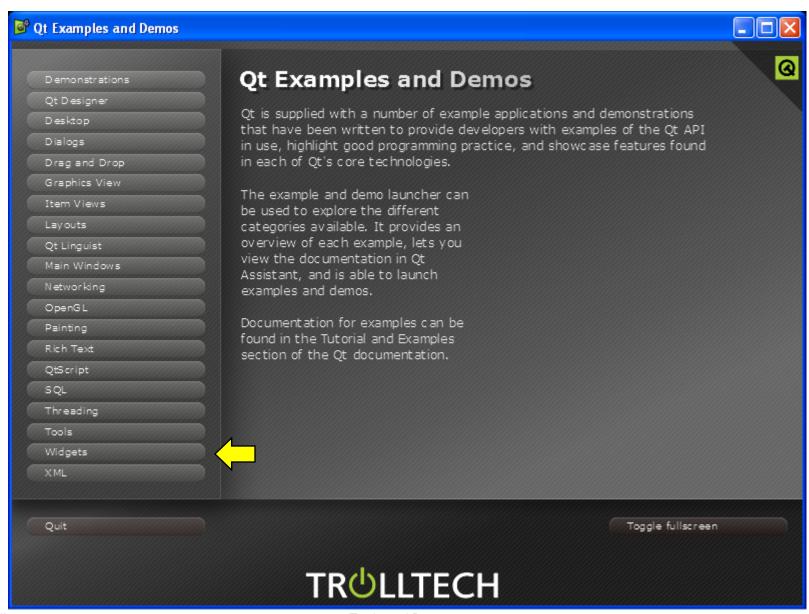
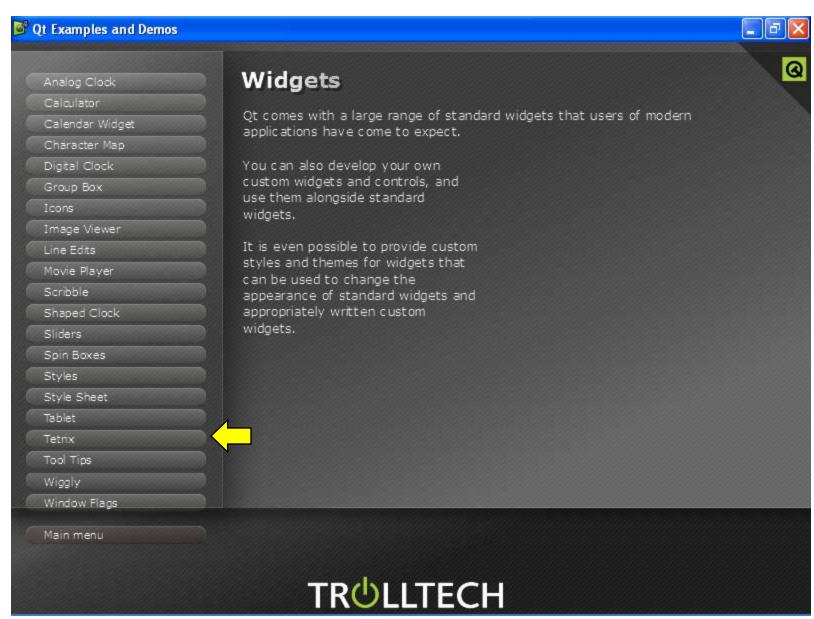
ECE 462 Object-Oriented Programming using C++ and Java

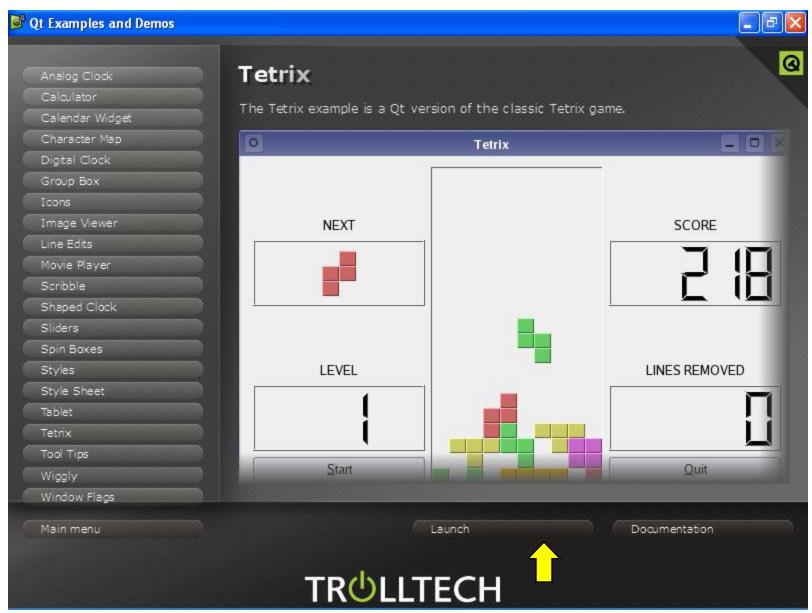
Tetrix and Automatic Document Generation

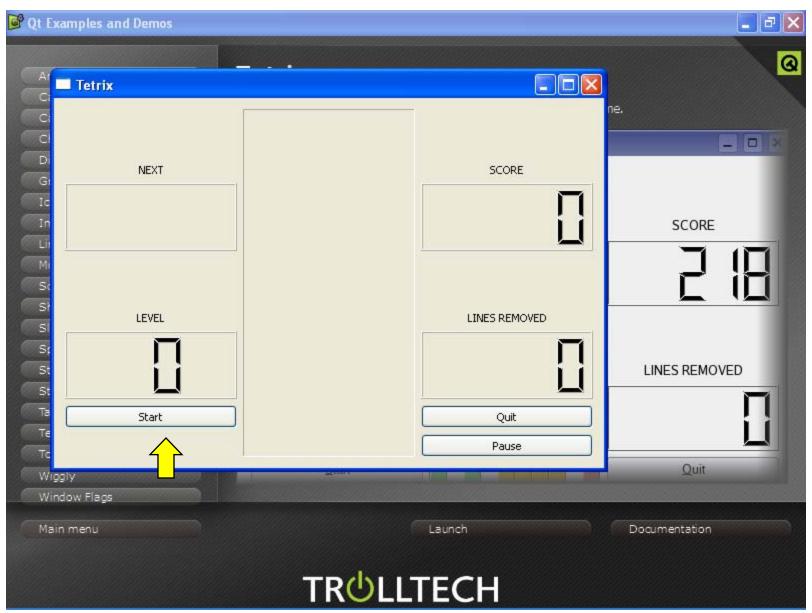
Yung-Hsiang Lu yunglu@purdue.edu

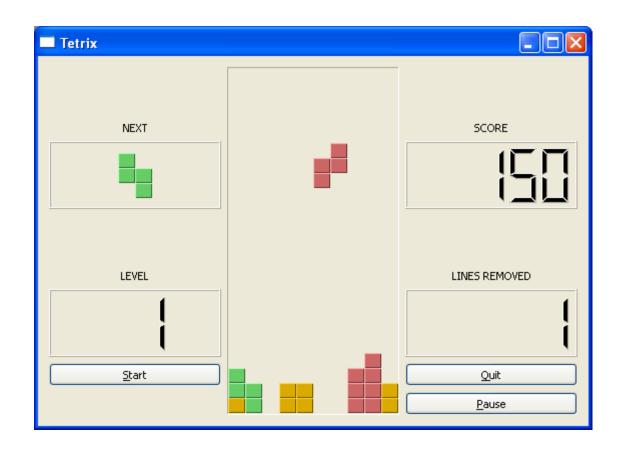
Tetrix Example in Qt

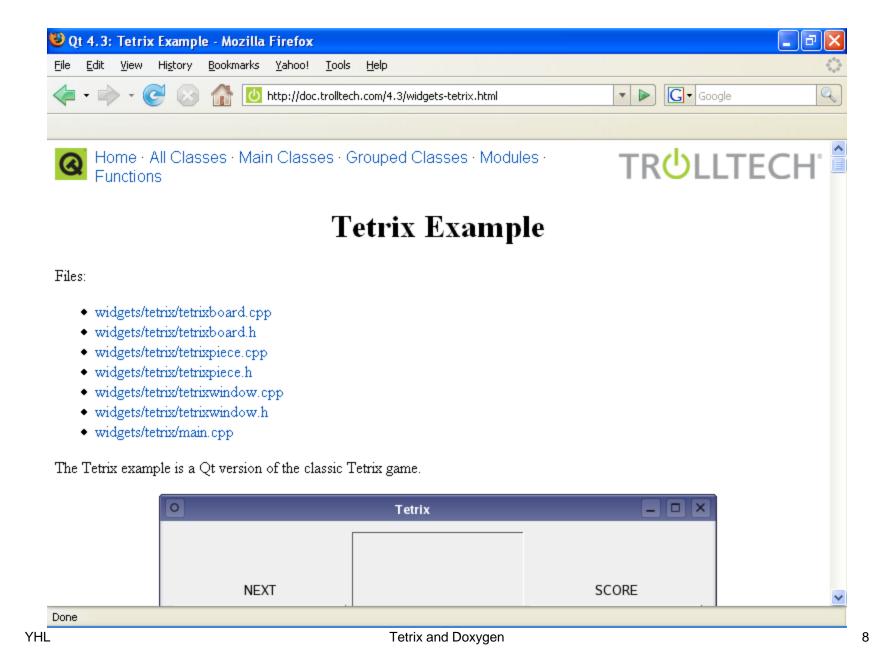




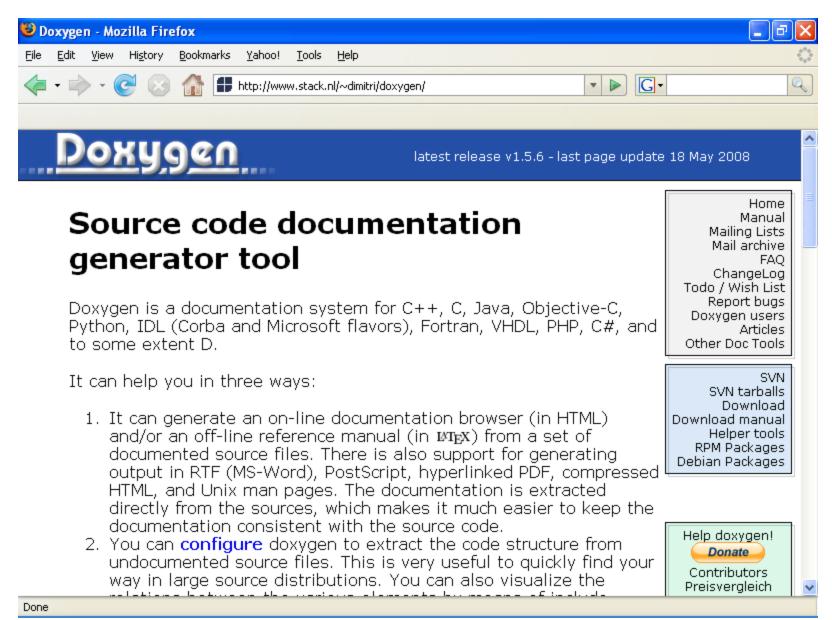


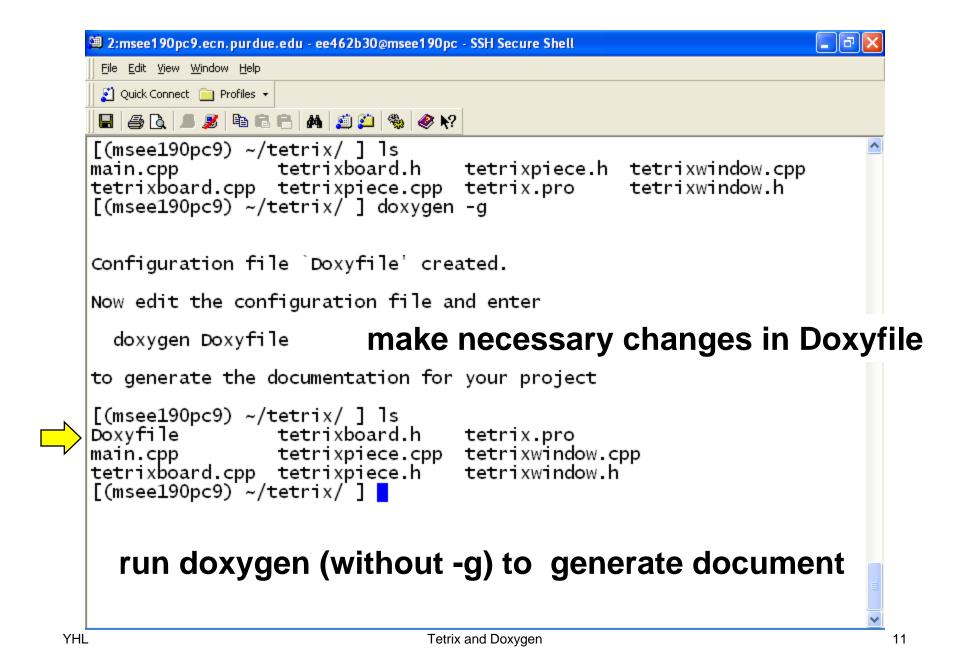






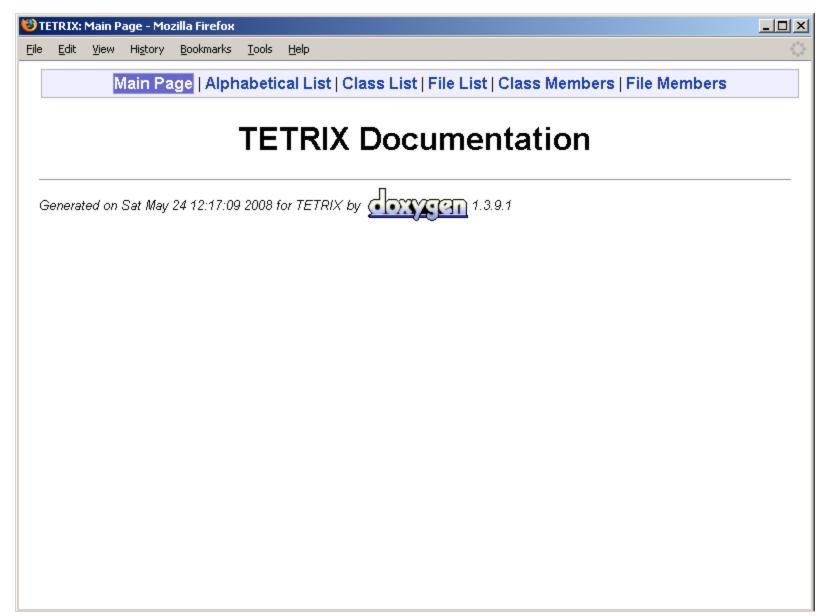
Automatic Document Generation

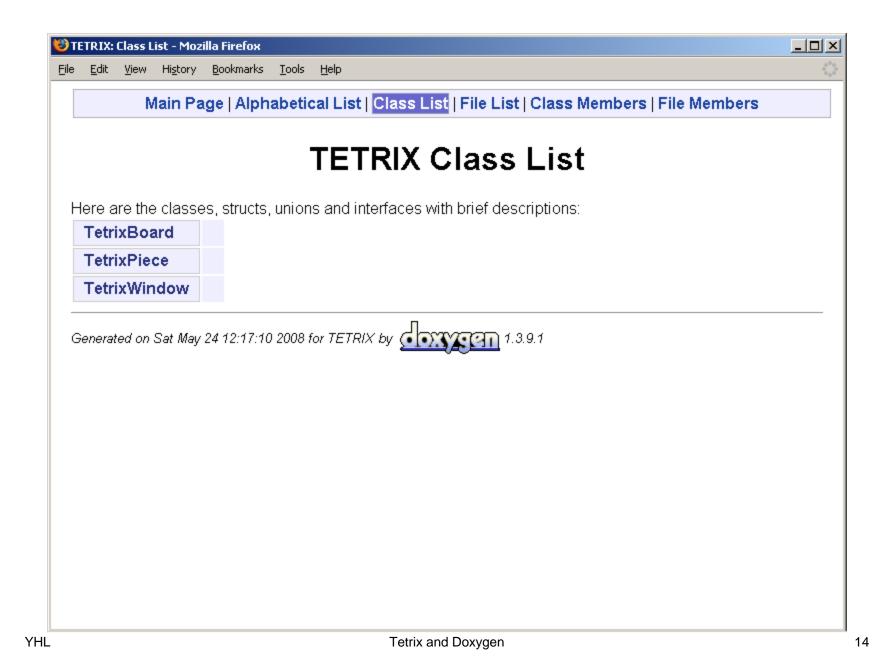


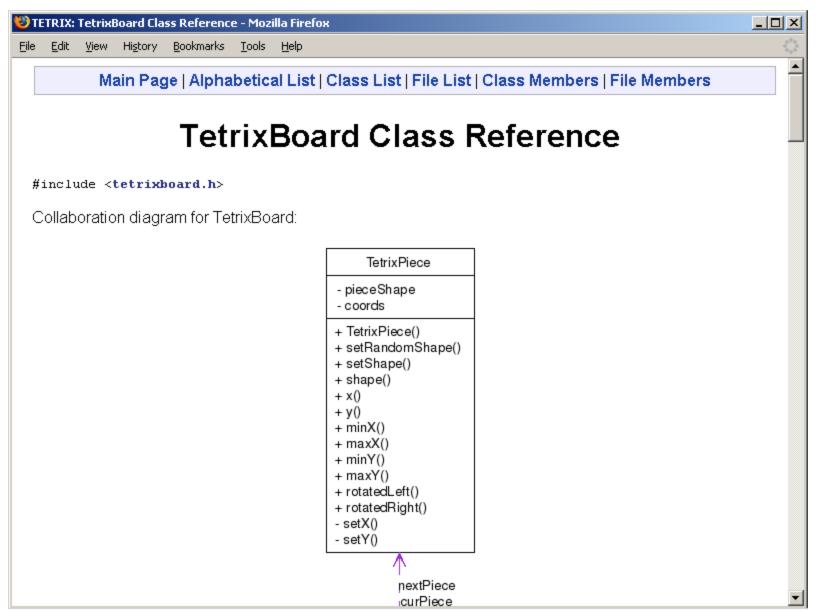


How to Understand a Program You Did Not Write?

- use document generation program (such as doxygen) to analyze the program structure
- start from the main function
- follow one execution path to understand the program's flow
- use a debugger to trace the program







YHL



```
TETRIX: tetrixboard.h Source File - Mozilla Firefox
File Edit View History Bookmarks Tools Help
  00024 #ifndef TETRIXBOARD H
  00025 #define TETRIXBOARD H
   00026
   00027 #include <QBasicTimer>
  00028 #include <OFrame>
  00029 #include <QPointer>
  00030
   00031 #include "tetrixpiece.h"
  00032
  00033 class QLabel;
  00034
  00035 class TetrixBoard : public QFrame
  00036 {
  00037
             Q OBJECT
  00038
  00039 public:
  00040
             TetrixBoard(QWidget *parent = 0);
  00041
  00042
          void setNextPieceLabel(QLabel *label);
  00043
             QSize sizeHint() const;
   00044
             QSize minimumSizeHint() const;
   00045
  00046 public slots:
  00047
            void start();
   00048
             void pause();
  00049
  00050 signals:
  00051
            void scoreChanged(int score);
   00052
             void levelChanged(int level);
   00053
            void linesRemovedChanged(int numLines);
  00054
  00055 protected:
  00056
             void paintEvent(QPaintEvent *event);
   00057
             void keyPressEvent(QKeyEvent *event);
```

