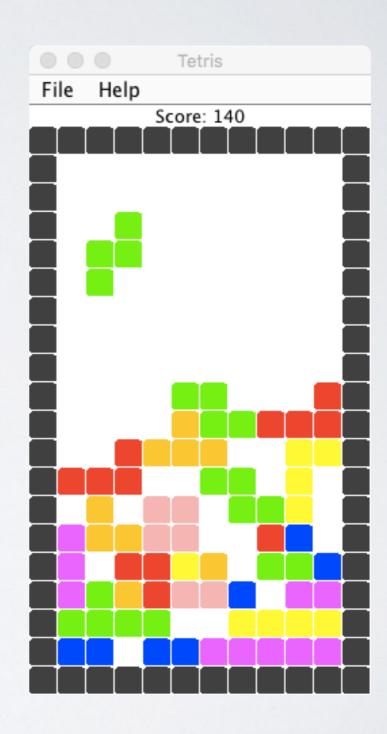
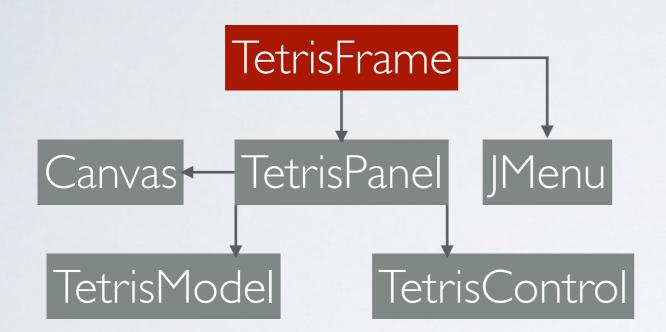
TETRIS

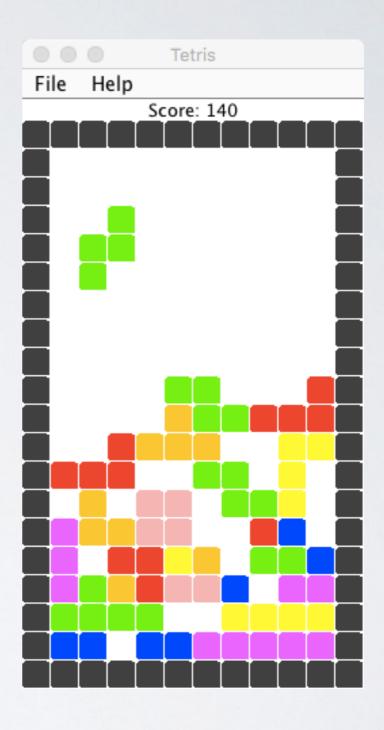
介紹

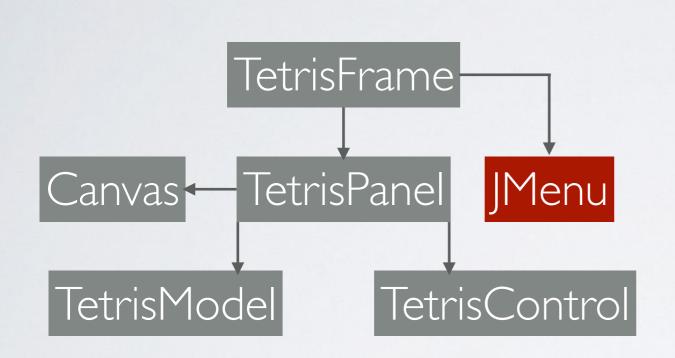
- 俄羅斯方塊遊戲
- 聯網排行榜獲取
- 登錄系統

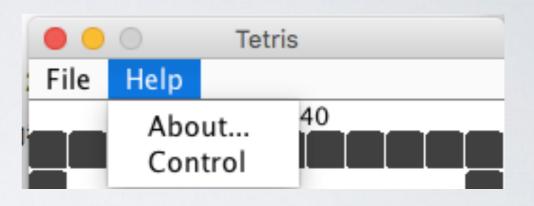


程式架構

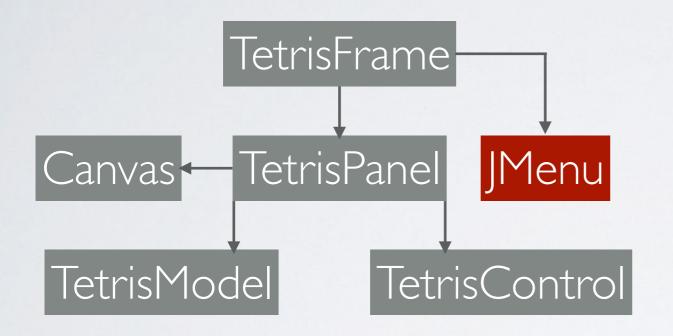










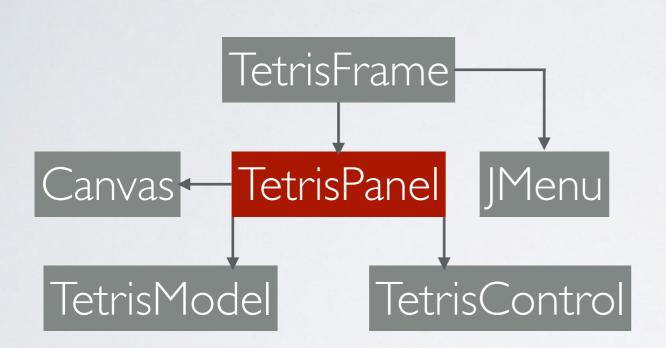


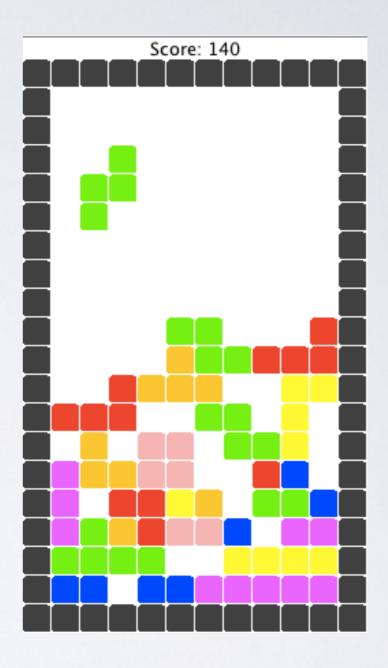
```
JMenu fileMenu = new JMenu( "File" );

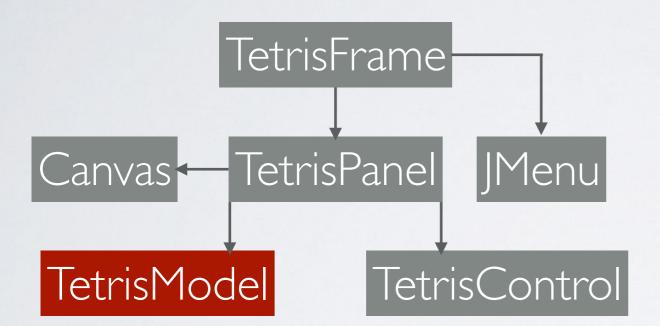
JMenuItem startItem = new JMenuItem( "New Game" );

fileMenu.add( startItem );

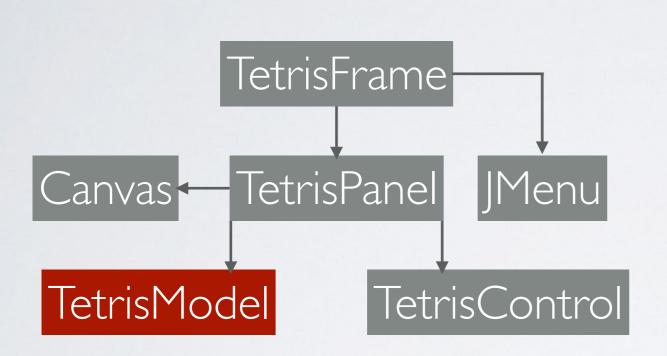
startItem.addActionListener(
    new ActionListener()
    {
        public void actionPerformed( ActionEvent event )
        {
            tetrisPanel.gamestart();
        }
     }
}
);
```

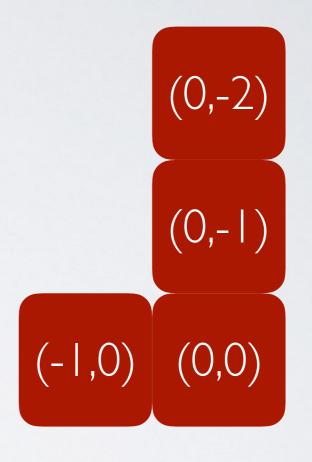




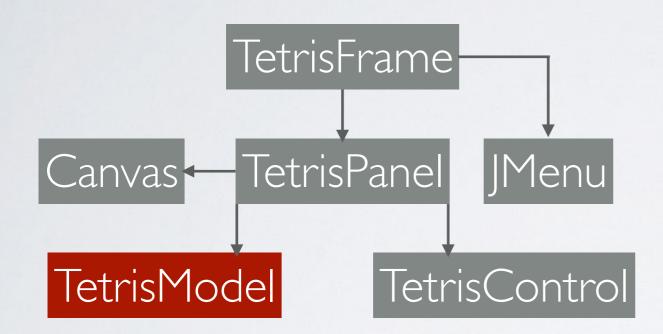


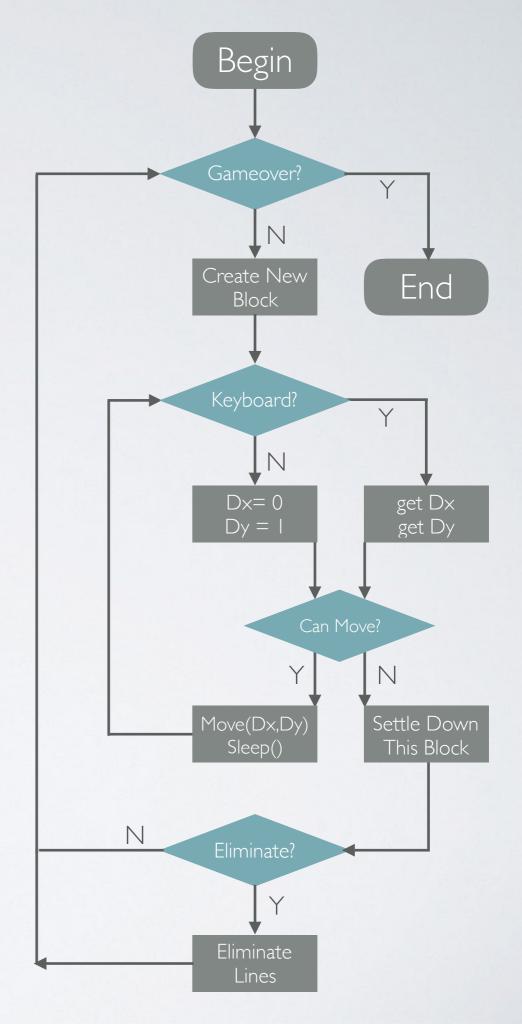
```
private static final int[][] BLOCK=
     {},
     \{\{0,0,1\},\{0,0,2\},\{1,0,-1\},\{0,0,0\}\},\
     \{\{0,0,0\},\{0,-1,0\},\{0,2,0\},\{0,1,0\}\},
     \{\{0,0,0\},\{0,1,0\},\{0,2,0\},\{0,0,1\}\},
     \{\{0,-1,0\},\{0,0,0\},\{0,0,1\},\{0,0,2\}\},
     \{\{0,0,0\},\{0,-1,0\},\{0,-2,0\},\{1,0,-1\}\},\
     \{\{1,0,-1\},\{2,0,-2\},\{0,0,0\},\{0,1,0\}\},
     \{\{0,-1,0\},\{0,-2,0\},\{0,0,0\},\{0,0,1\}\},
     \{\{1,0,-1\},\{2,0,-2\},\{0,0,0\},\{0,-1,0\}\},\
     \{\{0,1,0\},\{0,2,0\},\{0,0,0\},\{1,0,-1\}\},
     \{\{0,1,0\},\{0,0,0\},\{0,0,1\},\{0,0,2\}\},
     \{\{0,-1,0\},\{0,0,0\},\{0,1,0\},\{0,0,1\}\},
     \{\{0,-1,0\},\{0,0,0\},\{0,0,1\},\{1,0,-1\}\},
     \{\{1,0,-1\},\{0,1,0\},\{0,-1,0\},\{0,0,0\}\},\
     \{\{0,1,0\},\{0,0,0\},\{0,0,1\},\{1,0,-1\}\},\
     \{\{0,1,0\},\{0,0,1\},\{0,1,1\},\{0,0,0\}\},
     \{\{1,-1,0\},\{0,0,0\},\{0,0,1\},\{0,1,1\}\},\
     \{\{0,-1,0\},\{1,0,-1\},\{0,-1,1\},\{0,0,0\}\},
     \{\{0,1,0\},\{0,0,1\},\{0,-1,1\},\{0,0,0\}\},
     \{\{0,1,0\},\{0,0,0\},\{1,0,-1\},\{0,1,1\}\}
};
```

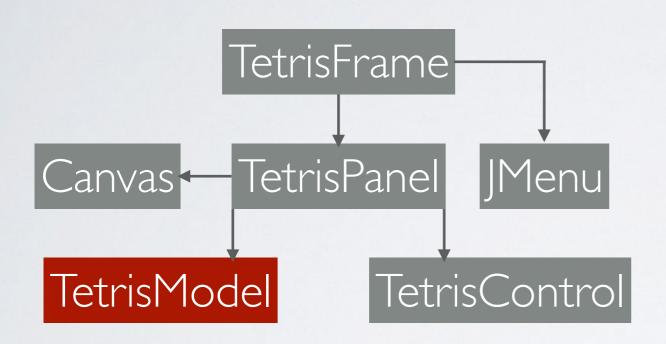




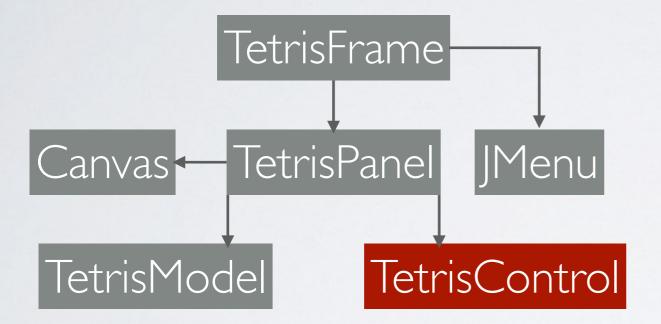
(0,0):Anchor Point





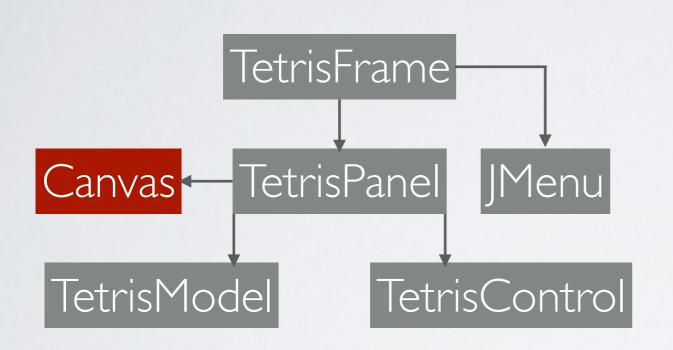


- x:int
- y:int
- kind:int
- checked : boolean
- paused : boolean
- gameover : boolean
- score:int
- timeInterval: int
- speedChangeRate : double



```
public void keyPressed(KeyEvent e)
   int keyCode = e.getKeyCode();
    switch (keyCode)
        case KeyEvent.VK_UP:
            model.rotate();
            break;
        case KeyEvent.VK_DOWN:
            model.move(0, 1);
            break;
        case KeyEvent.VK_LEFT:
            model.move(-1, 0);
            break;
        case KeyEvent.VK_RIGHT:
            model.move(1, 0);
            break;
        case KeyEvent.VK_ADD:
        case KeyEvent.VK_PAGE_UP:
            model.speedUp();
            break;
        case KeyEvent.VK_SUBTRACT:
        case KeyEvent.VK_PAGE_DOWN:
            model.speedDown();
            break;
        case KeyEvent.VK_SPACE:
        case KeyEvent.VK_P:
            model.changePauseState();
            break;
        default:
   }
```

}



- Score Update
- Graphic Update
 - Settled Blocks
 - Unsettled Block

运行演示

分工合作

沈濤

姚澤輝

- · MySQL 登錄系統
- Menu 設計
- 簡單UI設計

- Tetris Panel
- Tetris 模型設計
- 鍵盤輸入

自主學習

- KeyListener
- JMenu
- Observer / Observable
- Runnable / Thread
- MySQL

SQL 指令

```
//Connect to the host
myConn = DriverManager.getConnection("jdbc:mysql://"+HOST+":3306/tetris",
"tetris", "tetris");
//Login
myRs = myStmt.executeQuery("select * from score where username = "" +
usernameInput + "' and password = '" + passwordInput + "'");
//Register
myStmt.executeUpdate("insert into tetris.score value("" + usernameInput +
"','" + passwordInput + "','0');");
//Get Leaderboard
myRs = myStmt.executeQuery("select * from score order by score desc");
//Replace the old score with a new best score
myStmt.executeUpdate("update score set score='" + bestscore + "' where
username = '" + username + "';");
```

謝謝觀看