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# Package base

## Class Summary

### [HighScore](#)

Structure for storing high scores.

### [Main](#)

The main class containing the main method.

### [MinesweeperPreferences](#)

Stores the preferences, high scores and the saved game.

### [MinesweeperPreferences.Difficulty](#)

Difficulty enumeration.

---

base

## Class HighScore

```
java.lang.Object
|
+--base.HighScore
```

### All Implemented Interfaces:

java.io.Serializable

---

< [Constructors](#) > < [Methods](#) >

---

```
public class HighScore
extends java.lang.Object
implements java.io.Serializable
```

Structure for storing high scores.

## Constructors

### HighScore

```
public HighScore(java.lang.String name,
                  int seconds)
```

Main constructor-

#### Parameters:

name - the name of the player  
seconds - the score of the player

## Methods

### getName

```
public java.lang.String getName()
```

**Returns:**

the name fo the player

---

### getSeconds

```
public int getSeconds()
```

**Returns:**

the score of the player

---

### setName

```
public void setName(java.lang.String name)
```

**Parameters:**

name - the name to set

---

### setSeconds

```
public void setSeconds(int seconds)
```

**Parameters:**

seconds - the score to set

---

base

## Class Main

```
java.lang.Object  
|  
+--base.Main
```

---

< [Constructors](#) > < [Methods](#) >

---

```
public class Main
```

extends `java.lang.Object`

The main class containing the main method.

## Constructors

### Main

```
public Main()
```

## Methods

### getPrefs

```
public static MinesweeperPreferences getPrefs()
```

**Returns:**

the preferences used by the program.

---

### main

```
public static void main(java.lang.String[] args)
```

The entry point of the program.

**Parameters:**

args - command line arguments, unused

---

### savePreferences

```
public static void savePreferences()
```

Writes the preferences into a file.

---

base

# Class MinesweeperPreferences

```
java.lang.Object
|
+--base.MinesweeperPreferences
```

## All Implemented Interfaces:

java.io.Serializable

---

< [Constructors](#) > < [Methods](#) >

---

```
public class MinesweeperPreferences
    extends java.lang.Object
    implements java.io.Serializable
```

Stores the preferences, high scores and the saved game.

## Constructors

### MinesweeperPreferences

```
public MinesweeperPreferences()
```

Main constructor.

## Methods

### decrementBombs

```
public int decrementBombs()
```

Decrease the number of mines to be uncovered by one.

#### Returns:

the number of mines to be uncovered after decrementing

---

### getBombsLeft

```
public int getBombsLeft()
```

#### Returns:

the number of mines to be uncovered

---

## getDifficulty

```
public MinesweeperPreferences.Difficulty getDifficulty()
```

### Returns:

the difficulty

---

## getEasyHighScore

```
public HighScore getEasyHighScore()
```

### Returns:

the high score in easy difficulty

---

## getHardHighScore

```
public HighScore getHardHighScore()
```

### Returns:

the high score in hard difficulty

---

## getMediumHighScore

```
public HighScore getMediumHighScore()
```

### Returns:

the high score in medium difficulty

---

## getNumberOfBombs

```
public int getNumberOfBombs()
```

### Returns:

the number of mines to find

---

## getNumberOfColumns

```
public int getNumberOfColumns()
```

**Returns:**

the number of columns

---

## getNumberOfRows

```
public int getNumberOfRows()
```

**Returns:**

the number of rows

---

## getPlayerName

```
public java.lang.String getPlayerName()
```

**Returns:**

the name of the player

---

## getSavedGame

```
public game.MineCell[][] getSavedGame()
```

**Returns:**

the saved game

---

## getSavedTime

```
public int getSavedTime()
```

**Returns:**

the play tim of the saved game

---

## incrementBombs

```
public int incrementBombs()
```

Increase the number of mines to be uncovered by one.

**Returns:**

the number of mines to be uncovered after incrementing

---

## isShowTimer

```
public boolean isShowTimer()
```

**Returns:**

whether the player wants to see the timer

---

## isUseQuestionMark

```
public boolean isUseQuestionMark()
```

**Returns:**

whether the player wants to use question marks

---

## saveHighScore

```
public void saveHighScore(int time,  
                           MinesweeperPreferences.Difficulty difficulty)
```

Saved the current score as the high score if better.

**Parameters:**

time - the time of the current score  
difficulty - the difficulty of the game

---

## setBombsLeft

```
public void setBombsLeft(int bombsLeft)
```

**Parameters:**

bombsLeft - number to set the remaining mines

---



## setDifficulty

```
public void setDifficulty(MinesweeperPreferences.Difficulty difficulty)
```

### Parameters:

difficulty - the difficulty to set

---

## setDifficulty

```
public void setDifficulty(int rows,  
                           int columns,  
                           int bombs)
```

Sets the difficulty of the game.

### Parameters:

rows - the number of rows  
columns - the number of columns  
bombs - the number of mines

---

## setEasyHighScore

```
public void setEasyHighScore(HighScore easyHighScore)
```

### Parameters:

easyHighScore - high score in easy difficulty to set

---

## setHardHighScore

```
public void setHardHighScore(HighScore hardHighScore)
```

### Parameters:

hardHighScore - high score in hard difficulty to set

---

## setMediumHighScore

```
public void setMediumHighScore(HighScore mediumHighScore)
```

### Parameters:

mediumHighScore - high score in medium difficulty to set

---

## setPlayerName

```
public void setPlayerName(java.lang.String playerName)
```

### Parameters:

playerName - the name to set the player's name

---

## setSavedGame

```
public void setSavedGame(game.MineCell[][] savedGame)
```

### Parameters:

savedGame - the game to save

---

## setSavedTime

```
public void setSavedTime(int savedTime)
```

### Parameters:

savedTime - play time to save

---

## setShowTimer

```
public void setShowTimer(boolean showTimer)
```

### Parameters:

showTimer - boolean to set the 'show timer' option

---

## setUseQuestionMark

```
public void setUseQuestionMark(boolean useQuestionMark)
```

### Parameters:

useQuestionMark - boolean to set the 'use question mark' option

---

base

# Class MinesweeperPreferences.Difficulty

```
java.lang.Object
|
+-- java.lang.Enum
|
+-- base.MinesweeperPreferences.Difficulty
```

## All Implemented Interfaces:

java.io.Serializable, java.lang.Comparable

---

< [Fields](#) > < [Methods](#) >

---

public static final class **MinesweeperPreferences.Difficulty**  
extends java.lang.Enum  
implements java.io.Serializable

Difficulty enumeration.

## Fields

### CUSTOM

public static final [MinesweeperPreferences.Difficulty](#) CUSTOM

---

### EASY

public static final [MinesweeperPreferences.Difficulty](#) EASY

---

### HARD

public static final [MinesweeperPreferences.Difficulty](#) HARD

---

### MEDIUM

public static final [MinesweeperPreferences.Difficulty](#) MEDIUM

## Methods

### valueOf

public static [MinesweeperPreferences.Difficulty](#) **valueOf**(java.lang.String name)

---

## values

```
public static base.MinesweeperPreferences.Difficulty[] values()
```

# Package game

## Class Summary

### [MineCell](#)

The class containing the properties of a mine cell.

### [MineCellContent](#)

Enumeration used to represent the content of a mine cell

### [MineCellState](#)

Enumeration used to represent the state of a mine cell,

### [MineField](#)

The core class of the game.

### [Player](#)

The class used to represent the player and its properties.

---

## game

# Class MineCell

```
java.lang.Object
|
+--game.MineCell
```

### All Implemented Interfaces:

java.io.Serializable

---

< [Constructors](#) > < [Methods](#) >

---

```
public class MineCell
extends java.lang.Object
implements java.io.Serializable
```

The class containing the properties of a mine cell.

## Constructors

### MineCell

```
public MineCell()
```

Default constructor.

---

## MineCell

```
public MineCell(MineCellContent content)
```

Constructor.

**Parameters:**

content - the content to be set

---

## MineCell

```
public MineCell(MineCellContent content,  
               MineCellState state)
```

Constructor

**Parameters:**

content - the content to be set

state - the state to be set

---

## MineCell

```
public MineCell(MineCellState state)
```

Constructor.

**Parameters:**

state - the state to be set

---

## Methods

### getContent

```
public MineCellContent getContent()
```

**Returns:**

the content of the mine cell

---

### getContentValue

```
public int getContentValue()
```

Decodes to content of the mine cell to an integer.

**Returns:**

the decoded integer

---

## getState

public [MineCellState](#) **getState()**

**Returns:**

the state of the mine cell

---

## isBomb

public boolean **isBomb()**

**Returns:**

whether the cell contains a mine

---

## isEmpty

public boolean **isEmpty()**

**Returns:**

whether the cell is empty

---

## isFlagged

public boolean **isFlagged()**

**Returns:**

whether the cell is flagged

---

## isProtected

public boolean **isProtected()**

**Returns:**

whether the cell is protected

---

## isQuestionMarked

```
public boolean isQuestionMarked()
```

### Returns:

whether the cell is marked with a question mark

---

## isRevealed

```
public boolean isRevealed()
```

### Returns:

whether the cell has been uncovered

---

## isUnmarked

```
public boolean isUnmarked()
```

### Returns:

whether the cell is unmarked

---

## setContent

```
public void setContent(MineCellContent content)
```

### Parameters:

content - the content to be set

---

## setState

```
public void setState(MineCellState state)
```

### Parameters:

state - the state to be set

---



game

# Class MineCellContent

```
java.lang.Object
|
+-- java.lang.Enum
|
+-- game.MineCellContent
```

## All Implemented Interfaces:

java.io.Serializable, java.lang.Comparable

---

< [Fields](#) > < [Methods](#) >

---

```
public final class MineCellContent
extends java.lang.Enum
implements java.io.Serializable
```

Enumeration used to represent the content of a mine cell

## Fields

### BOMB

```
public static final MineCellContent BOMB
```

---

### EIGHT

```
public static final MineCellContent EIGHT
```

---

### EMPTY

```
public static final MineCellContent EMPTY
```

---

### FIVE

```
public static final MineCellContent FIVE
```

---

### FOUR

```
public static final MineCellContent FOUR
```

---

## ONE

```
public static final MineCellContent ONE
```

---

## PROTECTED

```
public static final MineCellContent PROTECTED
```

---

## SEVEN

```
public static final MineCellContent SEVEN
```

---

## SIX

```
public static final MineCellContent SIX
```

---

## THREE

```
public static final MineCellContent THREE
```

---

## TWO

```
public static final MineCellContent TWO
```

## Methods

### valueOf

```
public static MineCellContent valueOf(java.lang.String name)
```

---

### values

```
public static game.MineCellContent[] values()
```

---

game

# Class MineCellState

```
java.lang.Object
|
+-- java.lang.Enum
|
+-- game.MineCellState
```

## All Implemented Interfaces:

java.io.Serializable, java.lang.Comparable

---

< [Fields](#) > < [Methods](#) >

---

public final class **MineCellState**  
extends java.lang.Enum  
implements java.io.Serializable

Enumeration used to represent the state of a mine cell,

## Fields

### FLAGGED

public static final [MineCellState](#) FLAGGED

---

### QUESTIONMARK

public static final [MineCellState](#) QUESTIONMARK

---

### REVEALED

public static final [MineCellState](#) REVEALED

---

### UNMARKED

public static final [MineCellState](#) UNMARKED

## Methods

### valueOf

public static [MineCellState](#) **valueOf**(java.lang.String name)

---

## values

```
public static game.MineCellState[] values()
```

---

game

# Class MineField

```
java.lang.Object
|
+--game.MineField
```

---

< [Constructors](#) > < [Methods](#) >

---

```
public class MineField
extends java.lang.Object
```

The core class of the game. Prepares the board for game play and handles game events.

## Constructors

### MineField

```
public MineField(javax.swing.JLabel bombsLabel,
                 javax.swing.JLabel timeLabel,
                 javax.swing.JButton faceButton)
```

Class constructor. Prepares the board, loads the saved game if present.

**Parameters:**

bombsLabel - reference to a JLabel where the remaining number of mines is displayed  
timeLabel - reference to a JLabel where the current elapsed time is displayed  
faceButton - reference to a JButton for changing the face of the button

## Methods

### cancelTimer

```
public void cancelTimer()
```

Stops the timer if started.

---

## getCellPanels

```
public gui.panel.MineCellPanel[][] getCellPanels()
```

Returns a 2 dimensional array of MineCellPanel objects.

**Returns:**

a MineCellPanel[][] object

---

## getCells

```
public game.MineCell[][] getCells()
```

Returns a 2 dimensional array of MineCell objects.

**Returns:**

a MineCell[][] object

---

## getColumns

```
public int getColumns()
```

Returns the number of columns in the current game.

**Returns:**

the number of columns

---

## getRows

```
public int getRows()
```

Returns the number of rows of the current game.

**Returns:**

the number of rows

---

## getTime

```
public int getTime()
```

Returns the elapsed game time.

**Returns:**

the time

---

## onCellClick

```
public void onCellClick(int row,  
                        int column)
```

Handles clicks on the cell in the given row and column.

**Parameters:**

row - the row the cell is in  
column - the column the cell is in

---

## onPreferenceChanged

```
public void onPreferenceChanged()
```

Handles preference modification events.

---

## onTwoButtonCellClick

```
public void onTwoButtonCellClick(int row,  
                                 int column)
```

Handles clicks made with both mouse buttons on uncovered numbered cells.

**Parameters:**

row - the row the cell is in  
column - the column the cell is in

---

## toggleFlag

```
public void toggleFlag(int row,  
                       int column)
```

Handles right click on the covered cell in the given row and column.

**Parameters:**

row - the row the cell is in  
column - the column the cell is in

---

game

# Class Player

```
java.lang.Object
|
+--game.Player
```

---

< [Constructors](#) > < [Methods](#) >

---

```
public class Player
extends java.lang.Object
```

The class used to represent the player and its properties.

## Constructors

### Player

```
public Player()
```

## Methods

### isAlive

```
public static boolean isAlive()
```

**Returns:**

whether the player is alive

---

### isGameStarted

```
public static boolean isGameStarted()
```

**Returns:**

whether the player has started the game

---

## setGameStarted

```
public static void setGameStarted(boolean gameStarted)
```

### Parameters:

gameStarted - boolean to set whether the player has started to game

---

## setIsAlive

```
public static void setIsAlive(boolean isAlive)
```

### Parameters:

isAlive - boolean to set whether the player is alive



# Package gui

## Class Summary

### [MineFieldGUI](#)

Class used for drawing the whole board.

### [MinesweeperGUI](#)

The main frame of the game.

---

gui

## Class MineFieldGUI

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- javax.swing.JComponent
|           |
|           +-- javax.swing.JPanel
|               |
|               +-- gui.MineFieldGUI
```

### All Implemented Interfaces:

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.TransferHandler.HasGetTransferHandler

---

< [Constructors](#) > < [Methods](#) >

---

```
public class MineFieldGUI
extends javax.swing.JPanel
```

Class used for drawing the whole board.

## Constructors

### MineFieldGUI

```
public MineFieldGUI(javax.swing.JLabel bombsLabel,
                    javax.swing.JLabel timeLabel,
                    javax.swing.JButton faceButton)
```

Main constructor.

#### Parameters:

bombsLabel - reference to a JLabel for showing the number of mines left

timeLabel - reference to a JLabel for showing current play time

faceButton - reference to a JButton for changing the face of the button

## Methods

### cancelTimer

```
public void cancelTimer()
```

Stops the timer.

### getMineField

```
public MineField getMineField()
```

**Returns:**

MineField object of the current game

### saveGame

```
public void saveGame()
```

Saves the game.

gui

## Class MinesweeperGUI

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- java.awt.Window
|           |
|           +-- java.awt.Frame
|               |
|               +-- javax.swing.JFrame
|                   |
|                   +-- gui.MinesweeperGUI
```

**All Implemented Interfaces:**

java.awt.MenuContainer, java.awt.image.ImageObserver, java.io.Serializable,  
javax.accessibility.Accessible, javax.swing.RootPaneContainer,  
javax.swing.TransferHandler, javax.swing.WindowConstants

< [Constructors](#) >

```
public class MinesweeperGUI  
extends javax.swing.JFrame
```

The main frame of the game.

## Constructors

### MinesweeperGUI

```
public MinesweeperGUI()
```

Main constructor. Creates every component of the game.

# Package gui.dialog

## Class Summary

### [CustomDifficultyDialog](#)

A dialog for setting a custom difficulty.

### [HighScoresDialog](#)

Dialog for showing the high scores

### [MinesweeperPreferencesDialog](#)

Dialog for game preferences.

gui.dialog

## Class CustomDifficultyDialog

```
java.lang.Object
|
+-- java.awt.Component
|   |
|   +-- java.awt.Container
|       |
|       +-- java.awt.Window
|           |
|           +-- java.awt.Dialog
|               |
|               +-- javax.swing.JDialog
|                   |
|                   +-- gui.dialog.CustomDifficultyDialog
```

### All Implemented Interfaces:

java.awt.MenuContainer, java.awt.event.ActionListener, java.awt.image.ImageObserver, java.io.Serializable, javax.accessibility.Accessible, javax.swing.RootPaneContainer, javax.swing.TransferHandler.HasGetTransferHandler, javax.swing.WindowConstants

< [Constructors](#) > < [Methods](#) >

```
public class CustomDifficultyDialog
extends javax.swing.JDialog
implements java.awt.event.ActionListener
```

A dialog for setting a custom difficulty.

## Constructors

# CustomDifficultyDialog

```
public CustomDifficultyDialog(java.awt.Frame owner,  
                             boolean modal)
```

Main constructor. It creates and opens the dialog.

## Parameters:

owner - the frame from which the dialog is displayed

modal - specifies whether dialog blocks user input to other top-level windows when shown

## Methods

### actionPerformed

```
public void actionPerformed(java.awt.event.ActionEvent e)
```

This method is called when an action is performed on it's parent component.

## Parameters:

e - the event

gui.dialog

# Class HighScoresDialog

```
java.lang.Object  
|  
+-- java.awt.Component  
|   |  
|   +-- java.awt.Container  
|       |  
|       +-- java.awt.Window  
|           |  
|           +-- java.awt.Dialog  
|               |  
|               +-- javax.swing.JDialog  
|                   |  
|                   +-- gui.dialog.HighScoresDialog
```

## All Implemented Interfaces:

java.awt.MenuContainer, java.awt.event.ActionListener, java.awt.image.ImageObserver,  
java.io.Serializable, javax.accessibility.Accessible, javax.swing.RootPaneContainer,  
javax.swing.TransferHandler, javax.swing.WindowConstants

< [Constructors](#) > < [Methods](#) >

```
public class HighScoresDialog  
extends javax.swing.JDialog  
implements java.awt.event.ActionListener
```

Dialog for showing the high scores

## Constructors

### HighScoresDialog

```
public HighScoresDialog(java.awt.Frame owner,  
                        boolean modal)
```

Main constructor. It creates and opens the dialog.

**Parameters:**

owner - the frame from which the dialog is displayed

modal - specifies whether dialog blocks user input to other top-level windows when shown

## Methods

### actionPerformed

```
public void actionPerformed(java.awt.event.ActionEvent e)
```

This method is called when an action is performed on it's parent component.

**Parameters:**

e - the event

---

gui.dialog

## Class MinesweeperPreferencesDialog

```
java.lang.Object  
|  
+-- java.awt.Component  
|   |  
|   +-- java.awt.Container  
|       |  
|       +-- java.awt.Window  
|           |  
|           +-- java.awt.Dialog  
|               |  
|               +-- javax.swing.JDialog  
|                   |  
|                   +-- gui.dialog.MinesweeperPreferencesDialog
```

**All Implemented Interfaces:**

java.awt.MenuContainer, java.awt.event.ActionListener, java.awt.image.ImageObserver,  
java.io.Serializable, javax.accessibility.Accessible, javax.swing.RootPaneContainer,  
javax.swing.TransferHandler.HasGetTransferHandler, javax.swing.WindowConstants

---

< [Constructors](#) > < [Methods](#) >

---

```
public class MinesweeperPreferencesDialog  
extends javax.swing.JDialog
```

implements java.awt.event.ActionListener

Dialog for game preferences.

## Constructors

### MinesweeperPreferencesDialog

```
public MinesweeperPreferencesDialog(javax.swing.JFrame owner,  
                                     boolean modal,  
                                     MineField mineField)
```

Main constructor. It creates and opens the dialog.

**Parameters:**

owner - the frame from which the dialog is displayed

modal - specifies whether dialog blocks user input to other top-level windows when shown

mineField - MineField object of the current game

## Methods

### actionPerformed

```
public void actionPerformed(java.awt.event.ActionEvent e)
```

This method is called when an action is performed on it's parent component.

**Parameters:**

e - the event

# Package gui.panel

## Class Summary

### [MineCellPanel](#)

Class used for displaying mine cells.

gui.panel

## Class MineCellPanel

```
java.lang.Object
|
+--gui.panel.MineCellPanel
```

### All Implemented Interfaces:

java.awt.event.MouseListener

< [Fields](#) > < [Constructors](#) > < [Methods](#) >

```
public class MineCellPanel
extends java.lang.Object
implements java.awt.event.MouseListener
```

Class used for displaying mine cells.

## Fields

## SIZE

```
public static final int SIZE
```

## Constructors

### MineCellPanel

```
public MineCellPanel(MineField mineField,
                    int row,
                    int column,
                    javax.swing.JButton faceButton)
```

Main constructor. Creates the necessary resources.

#### Parameters:

mineField - a MineField object this cell is located in  
row - row index of this cell  
column - column index of this cell  
faceButton - reference to a JButton for changing the face of the button



## Methods

### flagCell

```
public void flagCell()
```

Flags the cell.

---

### getButton

```
public javax.swing.JButton getButton()
```

**Returns:**

the button which uncovers the cell when pressed

---

### getCellContent

```
public javax.swing.JPanel getCellContent()
```

**Returns:**

the panel representing the content of the cell

---

### getCellPanel

```
public javax.swing.JPanel getCellPanel()
```

**Returns:**

the panel of the mine cell

---

### getMineIconLabel

```
public javax.swing.JLabel getMineIconLabel()
```

**Returns:**

the label containing the mine icon

---

## mouseClicked

```
public void mouseClicked(java.awt.event.MouseEvent e)
```

Handles mouse button clicks.

**Parameters:**

e - the mouse event

---

## mouseEntered

```
public void mouseEntered(java.awt.event.MouseEvent e)
```

Handles the 'mouse entering the window' event.

**Parameters:**

e - the mouse event

---

## mouseExited

```
public void mouseExited(java.awt.event.MouseEvent e)
```

Handles the 'mouse exiting the window' event.

**Parameters:**

e - the mouse event

---

## mousePressed

```
public void mousePressed(java.awt.event.MouseEvent e)
```

Handles mouse button presses.

**Parameters:**

e - the mouse event

---

## mouseReleased

```
public void mouseReleased(java.awt.event.MouseEvent e)
```

Handles mouse button releases.

**Parameters:**

e - the mouse event

---

## questionMark

```
public void questionMark()
```

Marks the cell with a question mark.

---

## reveal

```
public void reveal(MineCellContent content)
```

Reveals the mine cell.

**Parameters:**

content - the content of this cell

---

## setContent

```
public void setContent(MineCellContent content)
```

Sets the content of the panel.

**Parameters:**

content - the content to be set

---

## toggleFlag

```
public MineCellState toggleFlag(MineCellState state,  
                                boolean usingQuestionMarks)
```

Toggles between the states of the covered mine cell.

**Parameters:**

state - the previous state

usingQuestionMarks - specifies whether the question mark option is set

**Returns:**

the next state

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