

Praktikum Tugas 3

Fragment dan RecyclerView

Mata kuliah Pemrograman IV

Kelas 3C

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PROGRAM STUDI D-IV TEKNIK INFORMATIKA

POLITEKNIK POS INDONESIA

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Implementasi FragmentExample

A. Praktikum

- MainActivity.java

```
package com.example.android.fragmentexample;

import android.os.Bundle;
import android.support.v4.app.FragmentManager;
import android.support.v4.app.FragmentTransaction;
import android.support.v7.app.AppCompatActivity;
import android.view.View; import
android.widget.Button;
    public class MainActivity extends AppCompatActivity
    {

        private Button mButton;
        private boolean isFragmentDisplayed = false;

        // Saved instance state key.
        static final String STATE_FRAGMENT = "state of fragment";
```

```

        @Override
        protected void onCreate(Bundle savedInstanceState) {
            super.onCreate(savedInstanceState);
            setContentView(R.layout.activity_main);
            // Get the button for opening and closing the fragment.
            mButton = findViewById(R.id.open_button);

            // If returning from a configuration change, get the
            // fragment state and set the button text.
            if (savedInstanceState != null) {
                isFragmentDisplayed =
                    savedInstanceState.getBoolean(STATE_FRAGMENT);
                if (isFragmentDisplayed) {
                    // If the fragment is displayed, change button to
                    "close".
                    mButton.setText(R.string.close);
                }
            }
            // Set the click listener for the button.
            mButton.setOnClickListener(new View.OnClickListener() {
                @Override
                public void onClick(View view) {
                    if (!isFragmentDisplayed) {
                        displayFragment();
                    } else {
                        closeFragment();
                    }
                }
            });
        }

        /**
         * This method is called when the user clicks the button
         * to open the fragment.
         */
        public void displayFragment() {
            // Instantiate the fragment.
            SimpleFragment simpleFragment = SimpleFragment.newInstance();
            // Get the FragmentManager and start a transaction.
            FragmentManager fragmentManager =
                getSupportFragmentManager();
            FragmentTransaction fragmentTransaction = fragmentManager
                .beginTransaction();

            // Add the SimpleFragment.
            fragmentTransaction.add(R.id.fragment_container,
                simpleFragment).addToBackStack(null).commit();
            // Update the Button text.
            mButton.setText(R.string.close);
            // Set boolean flag to indicate fragment is open.
            isFragmentDisplayed = true;
        }

        /**

```

```
* This method is called when the user clicks the button to  
* close the fragment.  
    */  
    public void closeFragment() {  
        // Get the FragmentManager.
```

```
        FragmentManager fragmentManager =
getSupportFragmentManager();
        // Check to see if the fragment is already showing.
SimpleFragment simpleFragment = (SimpleFragment) fragmentManager
        .findFragmentById(R.id.fragment_container);
if (simpleFragment != null) {
        // Create and commit the transaction to remove the
fragment.
        FragmentTransaction fragmentTransaction =
fragmentManager.beginTransaction();
        fragmentTransaction.remove(simpleFragment).commit();
}

        // Update the Button text.
mButton.setText(R.string.open);
        // Set boolean flag to indicate fragment is closed.
isFragmentDisplayed = false;
    }
    public void onSaveInstanceState(Bundle savedInstanceState)
{
        // Save the state of the fragment (true=open, false=closed).
savedInstanceState.putBoolean(STATE_FRAGMENT, isFragmentDisplayed);
        super.onSaveInstanceState(savedInstanceState);
    }
}
```

- SimpleFragment.java

```
package com.example.android.fragmentexample;

import android.os.Bundle;
import android.support.v4.app.Fragment;
import android.view.LayoutInflater;
import android.view.View; import
android.view.ViewGroup; import
android.widget.RadioGroup; import
android.widget.RatingBar; import
android.widget.TextView; import
android.widget.Toast;

/**
 * A simple {@link Fragment} subclass.
 * Use the {@link SimpleFragment#newInstance} factory method to
 * create an instance of this fragment.
 */
public class SimpleFragment extends Fragment {

    // TODO: Rename parameter arguments, choose names that match
    // the fragment initialization parameters, e.g. ARG_ITEM_NUMBER
    private static final String ARG_PARAM1 = "param1";    private
    static final String ARG_PARAM2 = "param2";
    // TODO: Rename and change types of
    parameters    private String mParam1;
    private String mParam2;    private static final
    int YES = 0;    private static final int NO = 1;

    public SimpleFragment() {
```

```
// Required empty public constructor
}

/**
 * Use this factory method to create a new instance of
 * this fragment using the provided parameters.
 *
 * @param param1 Parameter 1.
 * @param param2 Parameter 2.
 * @return A new instance of fragment SimpleFragment.
 */
// TODO: Rename and change types and number of parameters
public static SimpleFragment newInstance(String param1, String
param2) {
    SimpleFragment fragment = new
SimpleFragment();
    Bundle args = new Bundle();
    args.putString(ARG_PARAM1, param1);
    args.putString(ARG_PARAM2, param2);
    fragment.setArguments(args);
    return fragment;
}

@Override
public void onCreate(Bundle savedInstanceState)
{
    super.onCreate(savedInstanceState);
    if (getArguments() != null) {
        mParam1 = getArguments().getString(ARG_PARAM1);
        mParam2 = getArguments().getString(ARG_PARAM2);
    }
}

@Override
public View onCreateView(LayoutInflater inflater, ViewGroup
container,
                        Bundle savedInstanceState) {
    // Inflate the layout for this fragment.
    final View rootView =
        inflater.inflate(R.layout.fragment_simple, container,
false);
    final RadioGroup radioGroup =
rootView.findViewById(R.id.radio_group);
    final RatingBar ratingBar =
        rootView.findViewById(R.id.ratingBar);
    // Set the radioGroup onCheckedChangeListener listener.
    radioGroup.setOnCheckedChangeListener(
        new RadioGroup.OnCheckedChangeListener() {
            @Override
            public void onCheckedChanged(RadioGroup group, int
checkedId) {
                View radioButton =
radioGroup.findViewById(checkedId);
                int index = radioGroup.indexOfChild(radioButton);
                TextView textView =
                    rootView.findViewById(R.id.fragment_header);
                switch (index) {
                    case YES: // User chose "Yes."

```

```
break;

        textView.setText(R.string.yes_message);

        case NO: // User chose "No."
            textView.setText(R.string.no_message);
```



```

                                break;
default: // No choice made.
                                // Do nothing.
                                break;
        }
    }
});

// Set the rating bar onCheckedChanged listener.
// ratingBar.setOnRatingBarChangeListener
// (new RatingBar.OnRatingBarChangeListener() {
//     @Override
//     public void onRatingChanged(RatingBar
ratingBar,
//                                     float rating,
boolean fromUser) {
//                                     // Get rating and show Toast with rating.
//                                     String myRating =
(getString(R.string.my_rating) +
//                                     String.valueOf(ratingBar.getRating()));
//                                     Toast.makeText(getContext(), myRating,
//                                     Toast.LENGTH_SHORT).show();
//                                     }
//                                     });

// Return the View for the fragment's UI.
return rootView;

}

    public static SimpleFragment newInstance() {
return new SimpleFragment();
    }

}

```

- Activity_Main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context="com.example.android.fragmentexample.MainActivity">
    <ImageView
        android:id="@+id/imageView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginLeft="@dimen/image_left_margin"
        android:layout_marginStart="@dimen/image_left_margin"
        android:layout_marginTop="@dimen/body_top_margin"
        android:scaleType="centerCrop"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:srcCompat="@drawable/beatles_anthology_box"/>
    <TextView
```

```

        android:id="@+id/title"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:layout_marginEnd="@dimen/margin_wide"
        android:layout_marginLeft="@dimen/margin_wide"
        android:layout_marginRight="@dimen/margin_wide"
        android:layout_marginStart="@dimen/margin_wide"
        android:text="@string/title1"

        android:textAppearance="@style/Base.TextAppearance.AppCompat.Medium"
        app:layout_constraintHorizontal_bias="0.0"
        app:layout_constraintLeft_toRightOf="@+id/imageView"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="@+id/imageView"/>
        <ScrollView
            android:layout_width="0dp"
            android:layout_height="0dp"
            android:layout_marginRight="@dimen/standard_margin"
            android:layout_marginEnd="@dimen/standard_margin"
            app:layout_constraintRight_toRightOf="parent"
            android:layout_marginTop="@dimen/standard_margin"
            app:layout_constraintTop_toBottomOf="@+id/title"
            android:layout_marginLeft="0dp"
            android:layout_marginStart="0dp"
            app:layout_constraintLeft_toLeftOf="@+id/title"
            app:layout_constraintBottom_toBottomOf="parent"
            android:layout_marginBottom="@dimen/standard_margin">
            <TextView
                android:id="@+id/article"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:text="@string/article1"
                tools:layout_editor_absoluteX="8dp"
                tools:layout_editor_absoluteY="288dp"/>
            </ScrollView>

            <FrameLayout
                android:id="@+id/fragment_container"
                android:name="SimpleFragment"
                android:layout_width="0dp"
                android:layout_height="wrap_content"
                app:layout_constraintLeft_toLeftOf="parent"
                app:layout_constraintRight_toRightOf="parent"
                app:layout_constraintTop_toTopOf="parent"
                tools:layout="@layout/fragment_simple"/>
            <Button
                android:id="@+id/open_button"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_marginLeft="@dimen/standard_margin"
                android:layout_marginStart="@dimen/standard_margin"
                android:layout_marginTop="@dimen/standard_margin"
                android:text="@string/open"
                app:layout_constraintLeft_toLeftOf="parent"
                app:layout_constraintTop_toBottomOf="@+id/imageView"/>
    </android.support.constraint.ConstraintLayout>

```

- Fragment_Simple.xml

```

<LinearLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:background="@color/my_fragment_color"
android:orientation="vertical"

tools:context="com.example.android.fragmentexample.SimpleFragment">
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal">

        <TextView
            android:id="@+id/fragment_header"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:padding="@dimen/small_padding"
            android:text="@string/question_article"

            android:textAppearance="@style/Base.TextAppearance.AppCompat.Medium"/>
        >

        <RadioGroup
            android:id="@+id/radio_group"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:orientation="horizontal">

            <RadioButton
                android:id="@+id/radio_button_yes"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"

                android:layout_marginRight="@dimen/standard_margin"
                android:text="@string/yes"/>
            <RadioButton
                android:id="@+id/radio_button_no"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_marginRight="@dimen/standard_margin"
                android:text="@string/no"/>
            </RadioButton>

        </RadioGroup>

    </LinearLayout>

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal">

        <TextView
            android:id="@+id/fragment_header2"
            android:layout_width="wrap_content"

```

```
android:layout_height="wrap_content"
android:padding="@dimen/small_padding"
THE SONG?"
android:text="LIKE
```

```



android:textAppearance="@style/Base.TextAppearance.AppCompat.Medium"/
>

    <RatingBar
        android:id="@+id/ratingBar"

style="@android:style/Widget.DeviceDefault.RatingBar.Small"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:numStars="6"
android:isIndicator="false"
        android:padding="@dimen/padding_standard"
android:rating="3.5"                android:stepSize="0.5"/>
    </LinearLayout>
</LinearLayout>

```

B. Output

FragmentExample	FragmentExample
 <p>OPEN</p> <p>Cry for a Shadow</p> <p>Many a Beatle fanatic started down the outtake road, like I did, with a first listen to this song. Originally titled "Beatle Bop" and recorded in a single session that yielded four songs (the other three featured Tony Sheridan with the Beatles as a backing band), "Cry for a Shadow" is an instrumental written by Lennon and Harrison, which makes it unique to this day. John Lennon plays rhythm guitar, George Harrison plays lead guitar, Paul McCartney plays bass, and Pete Best plays drums. The sessions were produced by Bert Kaempfert in Hamburg, Germany, during the Beatles' second visit from April through July of 1961 to play in the Reeperbahn-section clubs.</p>	<p>LIKE THE ARTICLE? <input type="radio"/> Yes <input type="radio"/> No</p> <p>LIKE THE SONG? ★★★★★</p>  <p>CLOSE</p> <p>Cry for a Shadow</p> <p>Many a Beatle fanatic started down the outtake road, like I did, with a first listen to this song. Originally titled "Beatle Bop" and recorded in a single session that yielded four songs (the other three featured Tony Sheridan with the Beatles as a backing band), "Cry for a Shadow" is an instrumental written by Lennon and Harrison, which makes it unique to this day. John Lennon plays rhythm guitar, George Harrison plays lead guitar, Paul McCartney plays bass, and Pete Best plays drums. The sessions were produced by Bert Kaempfert in Hamburg, Germany, during the Beatles' second visit from April through July of 1961 to play in the Reeperbahn-section clubs.</p>

FragmentExample

ARTICLE: Thanks ☐ Yes ☒ No

LIKE THE SONG? ★★★★★



CLOSE

Cry for a Shadow

Many a Beatle fanatic started down the outtake road, like I did, with a first listen to this song. Originally titled "Beatle Bop" and recorded in a single session that yielded four songs (the other three featured Tony Sheridan with the Beatles as a backing band), "Cry for a Shadow" is an instrumental written by Lennon and Harrison, which makes it unique to this day. John Lennon plays rhythm guitar, George Harrison plays lead guitar, Paul McCartney plays bass, and Pete Best plays drums. The sessions were produced by Bert Kaempfert in Hamburg, Germany, during the Beatles' second visit from April through July of 1961 to play in the Reeperbahn-section clubs.

FragmentExample

ARTICLE: Thanks ☐ Yes ☒ No

LIKE THE SONG? ★★★★★



CLOSE

Cry for a Shadow

Many a Beatle fanatic started down the outtake road, like I did, with a first listen to this song. Originally titled "Beatle Bop" and recorded in a single session that yielded four songs (the other three featured Tony Sheridan with the Beatles as a backing band), "Cry for a Shadow" is an instrumental written by Lennon and Harrison, which makes it unique to this day. John Lennon plays rhythm guitar, George Harrison plays lead guitar, Paul McCartney plays bass, and Pete Best plays drums. The sessions were produced by Bert Kaempfert in Hamburg, Germany, during the Beatles' second visit from April through July of 1961 to play in the Reeperbahn-section clubs.

FragmentExample

ARTICLE: Like ☒ Yes ☐ No

LIKE THE SONG? ★★★★★



CLOSE

Cry for a Shadow

Many a Beatle fanatic started down the outtake road, like I did, with a first listen to this song. Originally titled "Beatle Bop" and recorded in a single session that yielded four songs (the other three featured Tony Sheridan with the Beatles as a backing band), "Cry for a Shadow" is an instrumental written by Lennon and Harrison, which makes it unique to this day. John Lennon plays rhythm guitar, George Harrison plays lead guitar, Paul McCartney plays bass, and Pete Best plays drums. The sessions were produced by Bert Kaempfert in Hamburg, Germany, during the Beatles' second visit from April through July of 1961 to play in the Reeperbahn-section clubs.

FragmentExample

ARTICLE: Thanks ☐ Yes ☒ No

LIKE THE SONG? ★★★★★



CLOSE

Cry for a Shadow

Many a Beatle fanatic started down the outtake road, like I did, with a first listen to this song. Originally titled "Beatle Bop" and recorded in a single session that yielded four songs (the other three featured Tony Sheridan with the Beatles as a backing band), "Cry for a Shadow" is an instrumental written by Lennon and Harrison, which makes it unique to this day. John Lennon plays rhythm guitar, George Harrison plays lead guitar, Paul McCartney plays bass, and Pete Best plays drums. The sessions were produced by Bert Kaempfert in Hamburg, Germany, during the Beatles' second visit from April through July of 1961 to play in the Reeperbahn-section clubs.

Implementasi RecyclerView

A. Praktikum

- MainActivity.java

```
package com.example.android.recyclerview;

import android.os.Bundle;
import android.support.design.widget.FloatingActionButton;
import android.support.v7.app.AppCompatActivity; import
import android.support.v7.widget.LinearLayoutManager; import
import android.support.v7.widget.RecyclerView; import
import android.view.View;

import java.util.LinkedList;

/**
 * Implements a basic RecyclerView that displays a list of
 * generated words.
 * - Clicking an item marks it as clicked.
 * - Clicking the fab button adds a new word to the list.
 */
public class MainActivity extends AppCompatActivity {

    private RecyclerView mRecyclerView;
    private WordListAdapter mAdapter;
    private final LinkedList<String> mWordList = new LinkedList<>();
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        // Put initial data into the word list.
        for (int i = 0; i < 20; i++) {
            mWordList.addLast("Word " + i);
        }

        // Create recycler view.
        mRecyclerView = (RecyclerView)
            findViewById(R.id.recyclerview);
        // Create an adapter and supply the data to be displayed.
        mAdapter = new WordListAdapter(this, mWordList);
        // Connect the adapter with the recycler view.
```

```

        mRecyclerView.setAdapter(mAdapter);
        // Give the recycler view a default layout manager.
mRecyclerView.setLayoutManager(new
LinearLayoutManager(this));

        // Add a floating action click handler for creating new
entries.
        FloatingActionButton fab = (FloatingActionButton)
findViewById(R.id.fab);
        fab.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
int wordListSize = mWordList.size();
// Add a new word to the wordList.
                mWordList.addLast("+ Word " + wordListSize);
// Notify the adapter, that the data has changed.

mRecyclerView.getAdapter().notifyItemInserted(wordListSize);
                // Scroll to the bottom.
                mRecyclerView.smoothScrollToPosition(wordListSize);
            }
        });
    }
}

```

- WordListAdapter.java

```

package com.example.android.recyclerview;

import android.content.Context;
import
android.support.v7.widget.RecyclerView;
import android.view.LayoutInflater; import
android.view.View; import
android.view.ViewGroup; import
android.widget.TextView;

import java.util.LinkedList;

/**
 * Shows how to implement a simple Adapter for a RecyclerView.
 * Demonstrates how to add a click handler for each item in the
 * ViewHolder.
 */
public class WordListAdapter extends
    RecyclerView.Adapter<WordListAdapter.WordViewHolder> {

    private final LinkedList<String> mWordList;
    private LayoutInflater mInflater;
    class WordViewHolder extends
RecyclerView.ViewHolder implements
View.OnClickListener {

        public final TextView
wordItemView; final
WordListAdapter mAdapter;
    }
    /**
     * Creates a new custom view holder to hold the view
     * to display in the RecyclerView.
     */

```

```

        * @param itemView The view in which to display the data.
        * @param adapter The adapter that manages the the data and views
        for the RecyclerView.
        */
        public WordViewHolder(View itemView, WordListAdapter adapter)
        {
            super(itemView);
            wordItemView = (TextView)
            itemView.findViewById(R.id.word);
            this.mAdapter = adapter;
            itemView.setOnClickListener(this);
        }

        @Override
        public void onClick(View view) {
            // Get the position of the item that was clicked
            int mPosition = getLayoutPosition();
            // Use that to access the affected item in mWordList.
            String element = mWordList.get(mPosition);
            // Change the word in the mWordList.
            mWordList.set(mPosition, "Clicked! " + element);
            // Notify the adapter that the data has changed so it can
            // update the RecyclerView to display the data.
            mAdapter.notifyDataSetChanged();
        }
    }

    public WordListAdapter(Context context, LinkedList<String>
wordList) {
        mInflater = LayoutInflater.from(context);
        this.mWordList = wordList;
    }

    /**
     * Inflates an item view and returns a new view holder that
     contains it.
     * Called when the RecyclerView needs a new view holder to
     represent an item.
     *
     * @param parent The view group that holds the item views.
     * @param viewType Used to distinguish views, if more than one
     type of item view is used.
     * @return a view holder.
     */
    @Override
    public WordViewHolder onCreateViewHolder(ViewGroup parent, int
viewType) {
        // Inflate an item view.
        View itemView = mInflater.inflate(R.layout.wordlist_item,
parent, false);
        return new WordViewHolder(itemView, this);
    }

    /**
     * Sets the contents of an item at a given position in the
     RecyclerView.

```

```

    *
    *      @param holder The view holder for that position in the
RecyclerView.
    *      @param position The position of the item in the RecyclerView.
    */

```

```

    @Override
    public void onBindViewHolder(WordViewHolder holder, int position)
    {
        // Retrieve the data for that position.
        String current = mWordList.get(position);
        // Add the data to the view holder.
        holder.wordItemView.setText(current);
    }

    /**
     * Returns the size of the container that holds the data.
     *
     * @return Size of the list of data.
     */
    @Override
    public int getItemCount() {
        return mWordList.size();
    }
}

```

- activity_main.xml

```

<?xml version="1.0" encoding="utf-8"?>

<android.support.design.widget.CoordinatorLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical">

    <android.support.v7.widget.RecyclerView
        android:id="@+id/recyclerview"
        android:layout_width="match_parent"
        android:layout_height="match_parent">
    </android.support.v7.widget.RecyclerView>

    <android.support.design.widget.FloatingActionButton
        android:id="@+id/fab"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="bottom|end"
        android:layout_margin="16dp"
        android:clickable="true"
        android:src="@drawable/ic_add_24dp" />

</android.support.design.widget.CoordinatorLayout>

```

- content_main.xml

```

<?xml version="1.0" encoding="utf-8"?>

```

```

<android.support.v7.widget.RecyclerView
    android:id="@+id/recyclerview"        android:layout_width="match_parent"
    android:layout_height="match_parent"
        xmlns:android="http://schemas.android.com/apk/res/android">
    <LinearLayout
        xmlns:android="http://schemas.android.com/apk/res/android"
        android:orientation="vertical"
        android:layout_width="match_parent"
        android:layout_height="match_parent">

        </LinearLayout>

</android.support.v7.widget.RecyclerView>

```

- wordlist_item.xml

```

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical"
    android:padding="6dp">

    <TextView
        android:id="@+id/word"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textSize="24sp"
        android:textStyle="bold"
        style="@style/word_title" />

</LinearLayout>

```


B. Output

RecyclerView	RecyclerView	RecyclerView
Word 9	Clicked! Word 0	Word 0
Word 10	Clicked! Word 1	Word 1
Word 11	Clicked! Word 2	Word 2
Word 12	Clicked! Word 3	Word 3
Word 13	Clicked! Word 4	Word 4
Word 14	Clicked! Word 5	Word 5
Word 15	Clicked! Word 6	Word 6
Word 16	Word 7	Word 7
Word 17	Word 8	Word 8
Word 18	Word 9	Word 9
Word 19	Word 10	Word 10
+ Word 20	Word 11	Word 11
+ Word 21	Word 12	Word 12
+ Word 22	Word 13	Word 13
+ Word 23	Word 14	Word 14
+ Word 24	Word 15	Word 15