



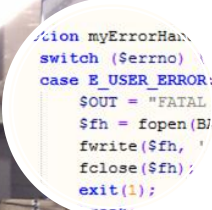
NAOqi .Net használata

A NAO robot távirányítása

Bemutakozás



2009: Nyíregyházi Főiskola–
Programtervező informatikus



2006–2010: Webfejlesztő



2010: Michelin Hungária Kft.
– Informatikai szakértő




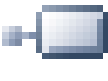
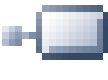
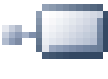
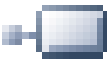


2012: NJSZT tagság

Használt alkalmazások

- ▶ Microsoft Visual C# 2012 Express
 - ▶ NAOqi .Net libraries
- 

NAOqi használata

- 
- ▶  Properties
 - ▶  References
 - ▶  naoqi-dotnet4
 - ▶  System
 - ▶  System.Data
 - ▶  System.Drawing

NAOqi használata

```
using Aldebaran;  
using Aldebaran.Proxies;
```

NAOqi proxy használata

```
TextToSpeechProxy proxy = new TextToSpeechProxy(textBoxIP.Text, 9559);  
proxy.post.say("Hello World!");  
proxy.Dispose();
```

```
if (speechRecognitionProxy == null)  
    speechRecognitionProxy = new SpeechRecognitionProxy(textBoxIP.Text, 9559);  
if (memoryProxy == null)  
    memoryProxy = new MemoryProxy(textBoxIP.Text, 9559);  
speechRecognitionProxy.subscribe("Test");
```

```
ArrayList list = (ArrayList)memoryProxy.getData("WordRecognized");
```

NAOqi proxy használata

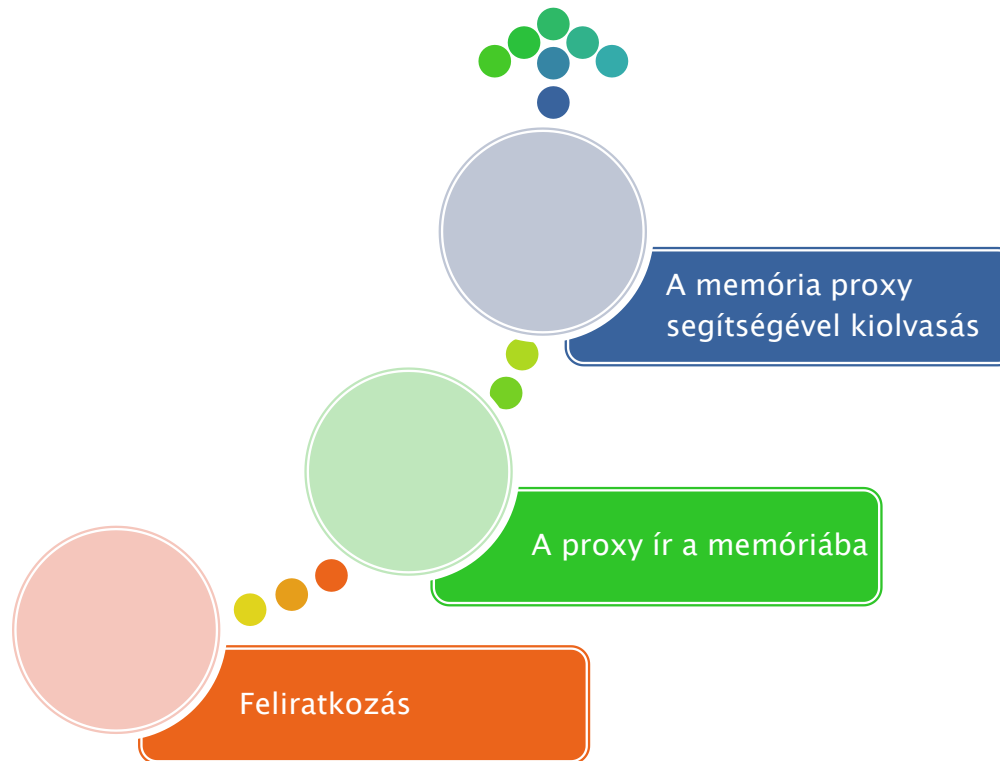
```
BehaviorManagerProxy bmp = new BehaviorManagerProxy(textBoxIP.Text, 9559);  
bmp.runBehavior("User/StandUp");  
bmp.Dispose();
```

VS

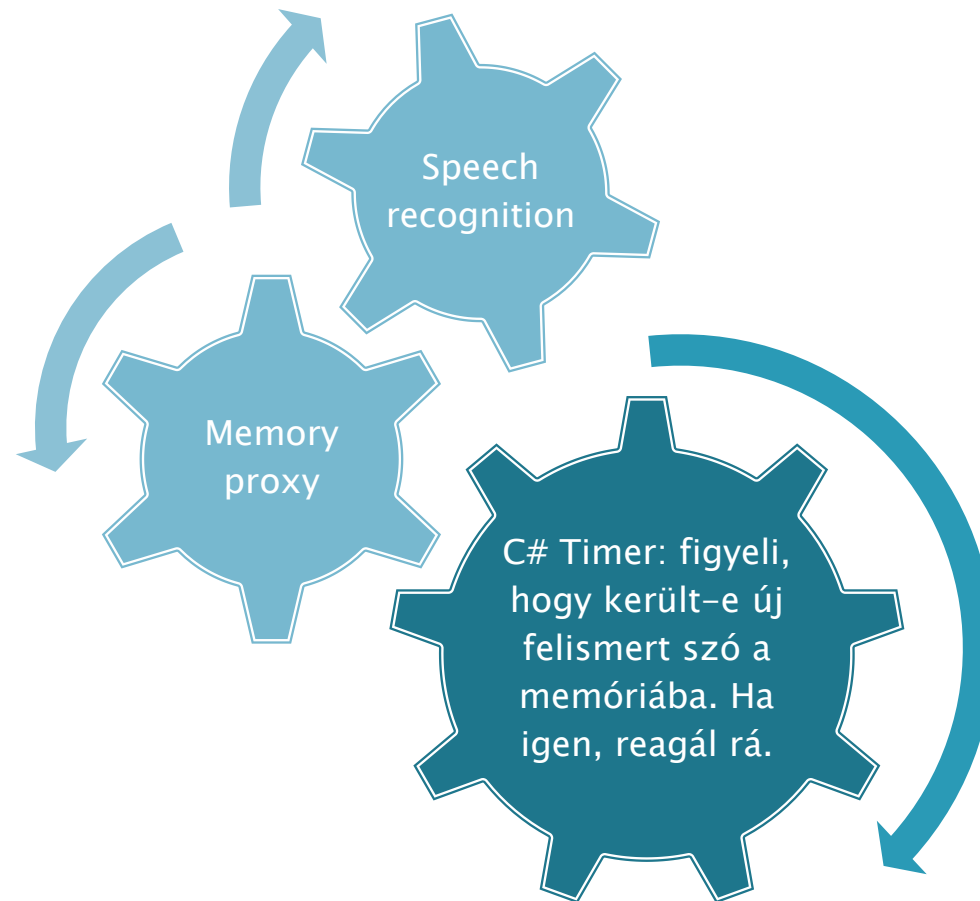
```
BehaviorManagerProxy bmp = new BehaviorManagerProxy(textBoxIP.Text, 9559);  
bmp.post.runBehavior("User/StandUp");  
bmp.Dispose();
```

NAOqi proxy használata

Információ a robot érzékelőről



Hang felismerés

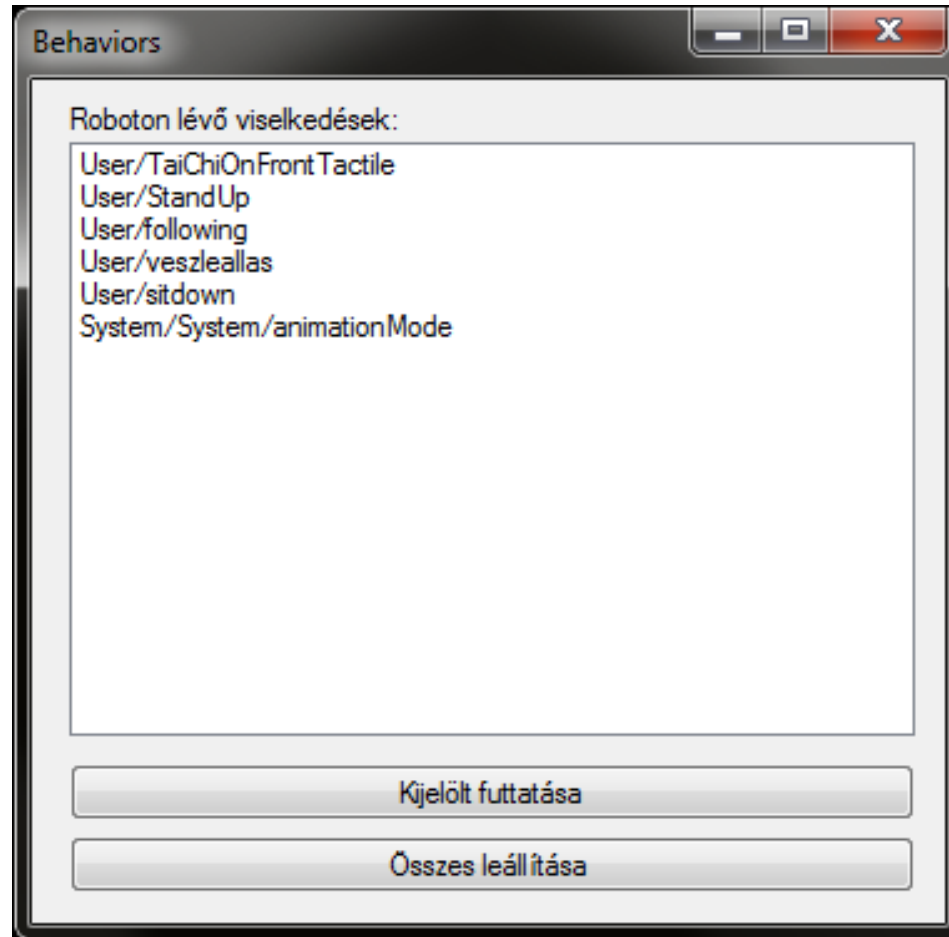


Hang felismerés

```
ArrayList list = (ArrayList)memoryProxy.getData("WordRecognized");
```

list	Count = 4
(new System.Collections.ArrayList.ArrayListDebugView(list)).Items[3]	0.3177
(new System.Collections.ArrayList.ArrayListDebugView(list)).Items[2]	☞ "turn right"
(new System.Collections.ArrayList.ArrayListDebugView(list)).Items[1]	0.6315
(new System.Collections.ArrayList.ArrayListDebugView(list)).Items[0]	☞ "Levente"

Viselkedések



Viselkedések

```
private void FormBehaviors_Load(object sender, EventArgs e)
{
    try
    {
        BehaviorManagerProxy bmp = new BehaviorManagerProxy(IP, 9559);
        List<string> l = bmp.getBehaviorNames();
        listBox1.Items.Clear();
        foreach (string ll in l)
            listBox1.Items.Add(ll);
    }
    catch (Exception ex) { MessageBox.Show("Hiba a futás során: " + ex.
}
```

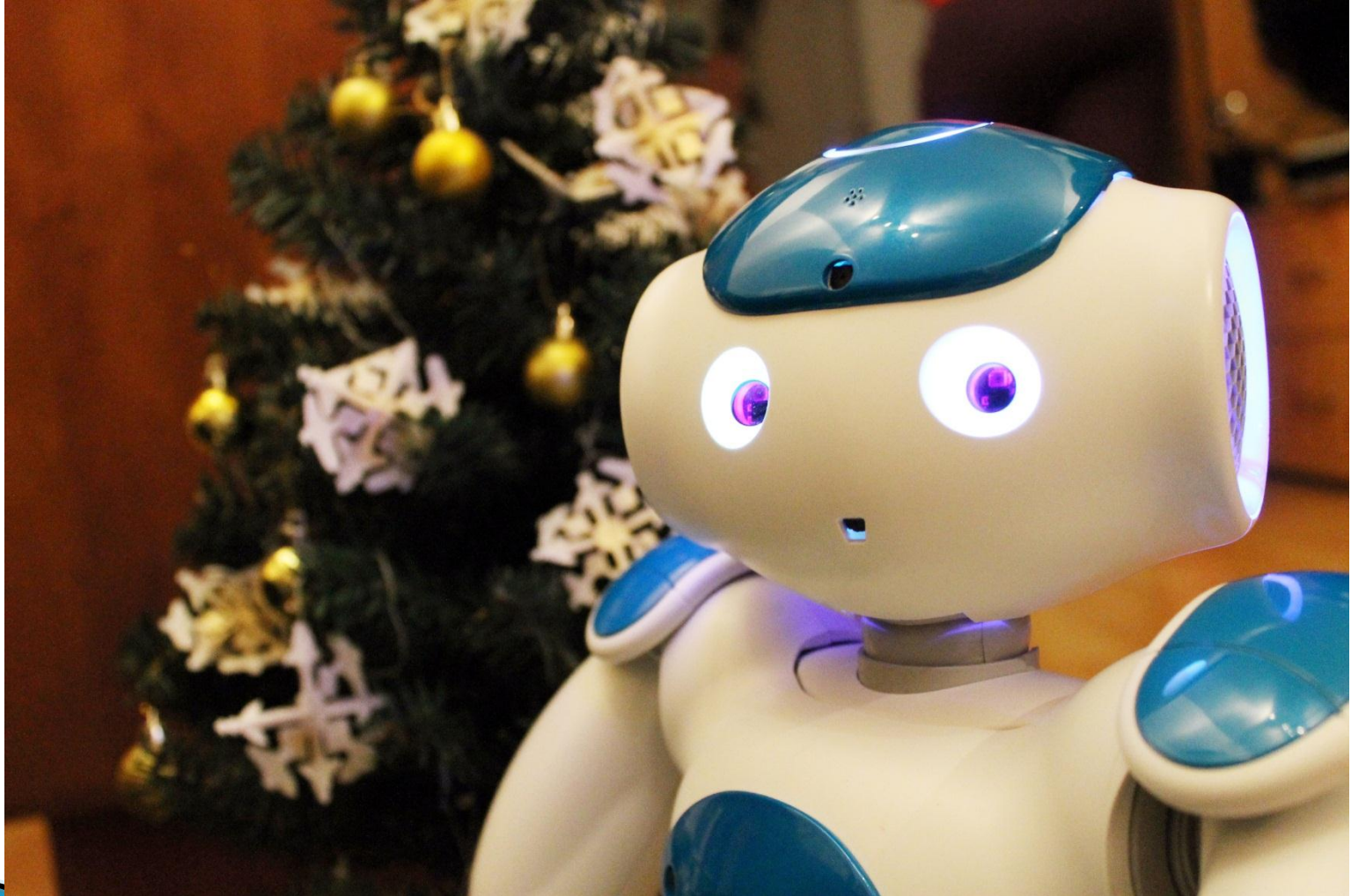
Viselkedések

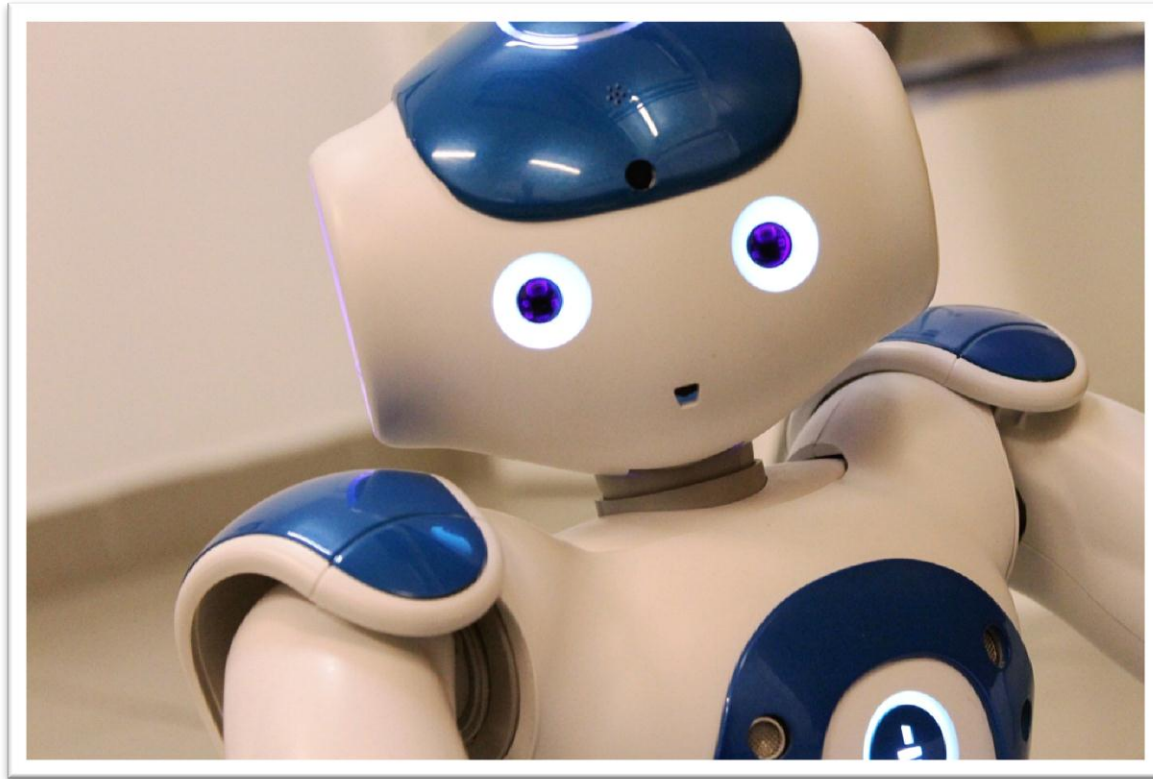
```
private void buttonRun_Click(object sender, EventArgs e)
{
    try
    {
        BehaviorManagerProxy bmp = new BehaviorManagerProxy(IP, 9559);
        foreach(string s in listBox1.SelectedItems)
            bmp.post.runBehavior(s.ToString());
    }
    catch (Exception ex) { MessageBox.Show("Hiba a futás során: " + ex.
}
```

Viselkedések

```
private void buttonStop_Click(object sender, EventArgs e)
{
    try
    {
        BehaviorManagerProxy bmp = new BehaviorManagerProxy(IP, 9559);
        bmp.stopAllBehaviors();
    }
    catch (Exception ex) { MessageBox.Show("Hiba a futás során: " + ex.
}
```

Bemutató





Köszönöm szépen a figyelmet!