Sukhrob Karimov
Expanding Language Learning Tools Through Technology
Content:

1. Use of Smartphones and Tablets Today
2. Benefits of Technology in Education
3. What Does CeLCAR Do?
4. Our Approach to Expanding Language Learning Tools
Use of Smartphones:

- 25% of US mobile web users only access the web from their mobile phones (On Device Research, MobiThinking, 2010)

- It is predicted that there will be 80 million new smartphones users in 2011 added to the already existing 60 million consumers who already own one (Nielsen, 2011)

- The number of Smartphone users worldwide is predicted to exceed 1 billion by 2014 (Parks Associates, 2010)

- Mobile is predicted to be bigger than internet in 5 years (Morgan Stanley, 2010)
Use of Tablets:

- Tablet manufacturers will increase their sales by 181% this year worldwide. (Gartner, 2010)

Expected sales of tablet devices (millions):
Smartphones:

![Smartphone Operating System by Age](image)
When and where Nielsen’s adult downloaders are using their apps

In which of the following situations do you most frequently use your apps?

- While alone/by myself: 71%
- While waiting for something/someone: 53%
- At work: 47%
- While commuting: 36%
- To improve what I’m currently doing: 29%
- While socializing with friends: 27%
- While finding a place to eat: 24%
- While shopping: 23%
- At school: 13%
- Other: 2%

Taking Advantage:

- Camera
- GPS
- Recording
- Touch Screen
- Multitouch
- Gestures
- Networking
- Accelerometer
- Augmented Reality
- Real Time Communication
Availability Sense:

- Pervasive/persistent
- Portable
- Personalized
- Participatory
- Social experience
Pedagogical Evolution:

• Interaction with the instructor
• Group-solving problems with peers
• Access to content, exercises, quizzes, discussion forums, etc.
Who Are We?

CeLCAR is dedicated to promoting the teaching and learning of the languages and cultures of Central Asia. The less commonly taught languages currently being focused on at CeLCAR are Azerbaijani, Dari, Kazakh, Kyrgyz, Mongolian, Pashto, Tajiki, Turkmen, Uyghur, and Uzbek.
What Do We Do?

1. Provide distance language courses
2. Develop language learning materials:
   • Textbooks and workbooks
   • Language survival kits
3. Develop multimedia Web/desktop applications:
   • Proficiency language tests
   • Intermediate language modules
   • Interactive games and activities
4. Develop smartphone and tablet apps (new):
   • For Android and iPhone
   • For iPad and PlayBook
Smart Phone and Tablet Apps:

**Design**
- Instructor or Language Pedagogist identifies the activities that help to learn target language
- Prepare resources images, audio, video for mobile use.

**Develop**
- Leverage the set of rich features of Flash CS5 including the new and enhanced text engine that supports Arabic script

**Compile and Test**

- Ps
- Ai
- Fl
- Fw
- Cp
- Au
- Pr
Smart Phone Apps:

Pashto Alphabet

Pashto Writing Tutorial
import fl.transitions.easing;  
import fl.transitions.Tween;  
import flash.media.Sound;  
  
var mySounds:Array = ["a_angz", "a_os", "bah_baran", "bah_pensil", "ca_chaary", "ca_reper", "ca_mussaia", "
  
loadLetters();  
function loadLetters():void  
{  
  var movieWidth:Number = stage.stageWidth;  
  var xPos:Number = movieWidth - 55;  
  var yPos:Number = 80;  
  
  for (var i:int = 0; i<myLetters.length; i++)  
  {  
    var myLetterBtn:Letter = new Letter();  
    addChild(myLetterBtn);  
    myLetterBtn.index = i;  
    myLetterBtn.x = xPos;  
    myLetterBtn.y = yPos;  
    myLetterBtn.theLetter.text = myLetters[i];  
    myLetterBtn.addEventListener(MouseEvent.CLICK, showLetterContent);  
    xPos = xPos + myLetterBtn.width + 5;  
    if (xPos <= movieWidth)  
    {  
      xPos = movieWidth - 55;  
      yPos += 50;  
    }  
  }  
}  
function showLetterContent(event:MouseEvent):void  
{  
  var index:int = event.currentTarget.index;  
  event.currentTarget.alphas = 0;  
  trace (index);  
  gotoAndPlay(mySounds[index]);  
}  
  
close_btn.addEventListener(MouseEvent.CLICK, closeApplication);  
function closeApplication(e:MouseEvent):void  
{  
  NativeApplication.nativeApplication.exit();  
}  
stop();

Pashto Alphabet App
Tablet Apps:
Tablet Apps:

Pashto Script Tutorial
App Evaluation

- The application is useful overall
- I would download this app
- It would help me to read in Pashto
- It would help me to write in Pashto
- I would recommend it to my friend
- I would use it outside of class
- I wish there were more similar applications

Students

Native Speakers
Issues To Consider:

1. Registration as a Vendor
2. Free vs. 99¢
3. Vending Setup
4. Size vs. Accessibility
5. Multiscreen Development
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