

PDA Tree Project

by James Davis

Project Reason

■ Champion Tree Project

- Saves trees
- World peace
- Yay

■ Their website:

- <http://www.championtrees.org>

Our Tree Database

■ Local Champion Trees

- We have some here in Jackson
- We need a better way to record their info
- That's the point of this seminar project

■ Here's Union's database

- It uses [excel](#)
- That's a problem

Our Tree Database

- Do I even need a database?
 - Wasn't sure how PDA's did that sort of thing
- What are other options are available?
 - I thought that I could print my PDA database to a .txt
 - Could search/compare/replace/update with a simple string search program

Our Tree Database

- PDA databases are not that simple
- They have their own format
 - .pdb
- Remind me to talk about this later

Where to Start

- How do you program a PDA?
 - Didn't have a clue
 - What's "PDA" stand for anyways?
 - (personal digital assistant)
 - Palm Pilot
- I need a development program
 - Go to the source of palm pilots
 - <http://www.palm.com>

What Language

- Did some research
 - C/C++ is most prevalent
 - I was more comfortable with C
 - Had recent experience in classes
- Found good sources for C
 - OnboardC [cookbook](#)
 - Good explanation of PDA programming

What Development Program

■ Tried PRC Tools (OnboardC)

- GCC development software
- Free
- Several links didn't work
- Missing needed software

■ Moved to CodeWarrior

- Visual C++ feel
- Came with a tutorial

CodeWarrior

- Came with tutorial
 - Step-by-step instructions
 - Very thorough
 - Or so I thought
 - Learned basic application programming

Program Database

- Realized a database might not be needed
 - .pdb could be transferred between PDAs with hotsync
 - Stored in memory as well
 - Populated by code

Program Code

- Stop presentation and open up files in Visual C++
 - Multiple files (.c, .h, .rscs)
 - All included in a project .mpc

Still Needs Stuff

- Not as far done as I would have hoped
 - Need to save to a database correctly
 - Need to organize better (navigation)
 - Learn more
 - Tutorial didn't have everything in it that I am using

Resources

- www.palm.com
- www.codewarrior.com
- prc-tools.sourceforge.net
- discussion.bright-hand.com
- www.google.com
 - various sites from this