

Developing Mobile Learning

Pedagogy, Resources and Technology for Computing

Practicalities and Technicalities

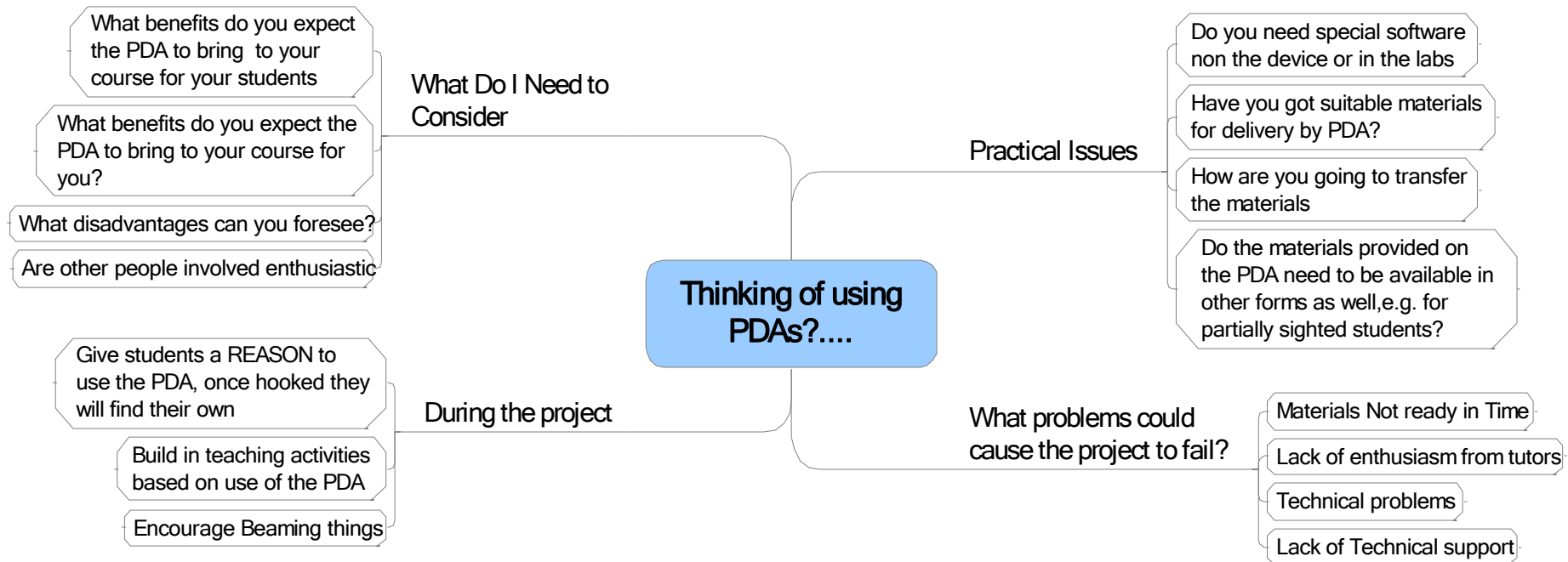
Jon Trinder

University of Glasgow

j.trinder@elec.gla.ac.uk

jont@ninelocks.com

Thinking of Using PDAs?



What Do I Need to Consider

- What benefits do you expect the PDA to bring to your course for your students
- What benefits do you expect the PDA to bring to your course for you?
- What disadvantages can you foresee?
- Are other people involved enthusiastic

Practical Issues

- Do you need special software on the device or in the labs
- Have you got suitable materials for delivery by PDA?
- How are you going to transfer the materials
- Do the materials provided on the PDA need to be available in other forms as well, e.g. for partially sighted students?

What problems could cause the project to fail?

- Materials Not ready in Time
- Lack of enthusiasm from tutors
- Technical problems
- Lack of Technical support

Devices

Devices



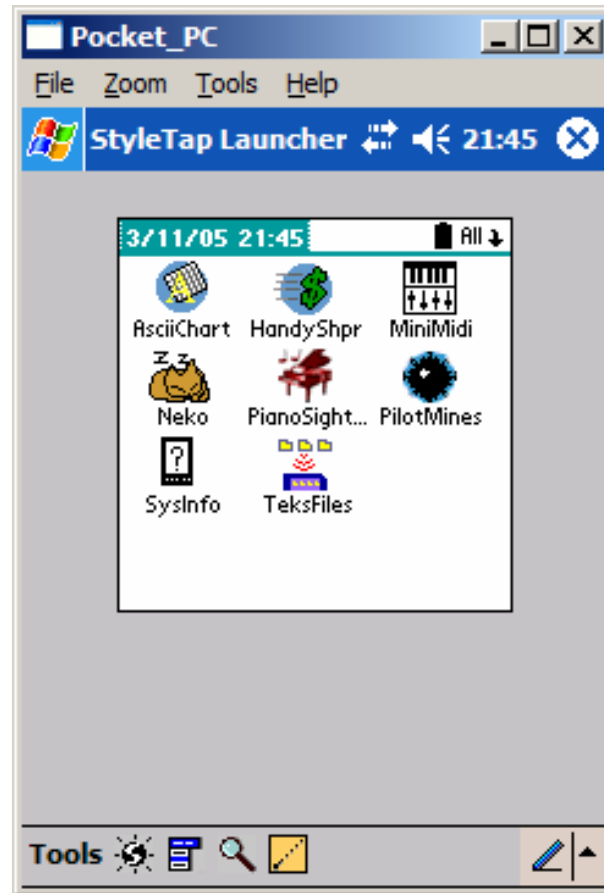
OR



Windows Mobile Versions

- Pocket PC
- Pocket PC Phone Edition
- Smartphone

Or have both!



Palm Simulator www.styletap.com

What's the best...

- Breakfast
- Car

- There is only *Best for You*

Content/Distribution

Cross Platform Formats

- Repligo www.cerience.com
- MobiPocket www.mobipocket.com
- eBooks www.ereader.com
- HTML Javascript support varies.

Interoperability with “Office” applications

- PocketPC- Pocket Word Pocket Excel
- Palm PDAs are supplied with Documents-To-Go Standard Edition to support the editing of Word and Excel files on the PDA
- Most Palm OS machines are supplied with software to enable basic syncing with Outlook

Expansion and Connectivity

Connectors/Cables/Cards

- Syncing Cables
- Charging Cables
- Cards Secure Digital /MMC
- Bluetooth
- IrDA

Power, Travel, Charging

- Charging
- Optimising
- Portable Chargers and cables

Portable Charging



CPC PART NUMBER PW01593

CPC Order Code: **CS12034**

Deployment and Support

Deployment and Support

- Training
- Syncing
- Materials Distribution
- Own or Loan
- Support

Charging



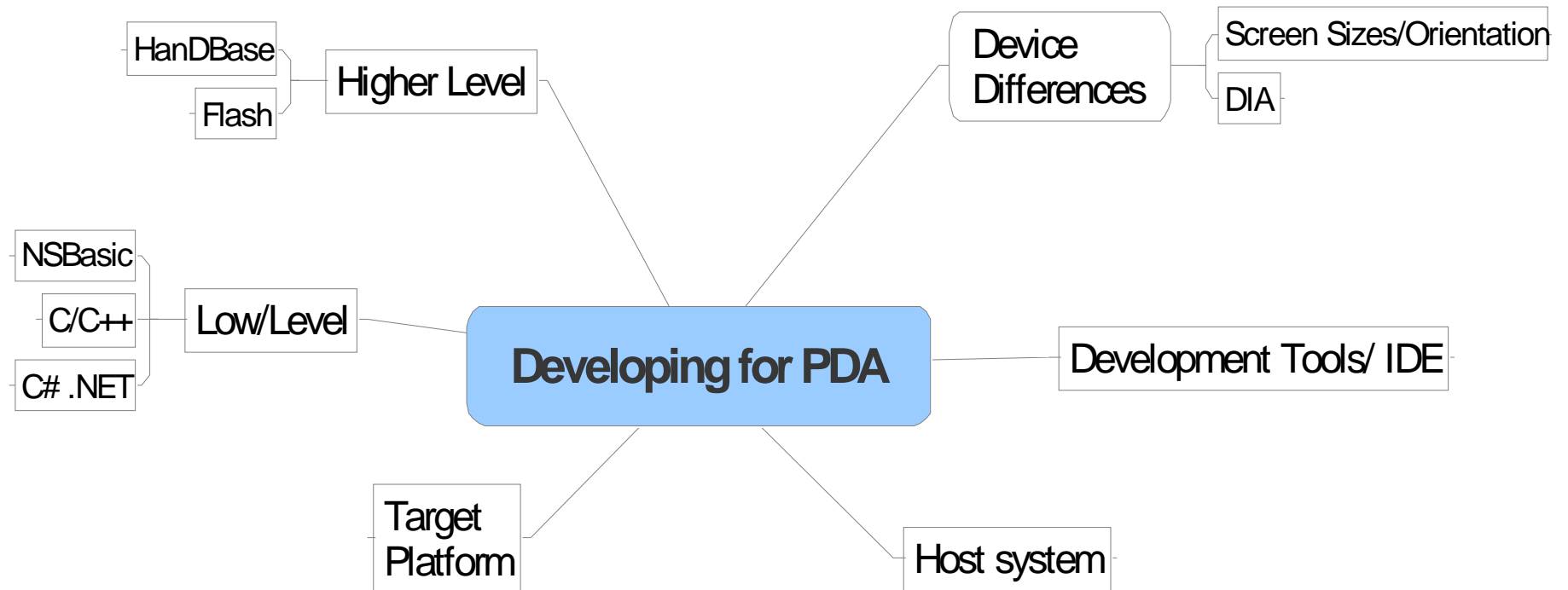
24th November 2005

J.J.Trinder j.trinder@elec.gla.ac.uk

20

Developing Applications

Why?



Books For Developers

Palm

PalmOS Developers Guide, Neil Rhodes, Julie McKeehan O'Reilly ISBN 978165928565

PalmOS Developers Guide, Rhodes/McKeehan O'Reilly ISBN 978165928565

PalmOS Programming Bible, Lonnon Foster Wiley ISBN 0764549618

Windows Mobile

.NET Compact Framework Programming with C# Paul Yao, David Durant, Addison Wesley ISBN 9780321174031

.NET Compact Framework, Andy Wigley, Stephen Wheelright, Microsoft. ISBN0735617252

JAVA

JAVA Development on PDAs, Daryl Wilding-McBride, Addison Wesley ISBN 0201719541

Links for Developers

Palm

<http://www.palmsource.com/developers/>

<http://pluggedin.palm.com/>

Windows Mobile

<http://msdn.microsoft.com/mobility/windowsmobile/howto/>

<http://www.pocketpcdn.com/>

C#

www.functionx.com/csharp

General

www.codeproject.com

Software – Sites

Download Websites

- <http://www.palmgear.com> Palm
- <http://www.pocketgear.com> PPC
- <http://www.handango.com> Multi-platform
- <http://www.freewarepalm.com>
- <http://www.freewareppc.com>
- <http://www.smartphone.net>

News

- <http://www.brighthand.com>
- <http://www.pdanews24.com>

Mailing Lists, Forums

- <http://www.jiscmail.ac.uk/pda-edu>
- <http://www.handheldlearning.co.uk>
- <http://www.pocketpchow2.com/>
- <http://www3.telus.net/~kdeanna/mlearning>

Books

- **Mobile Learning: A Handbook for Educators and Trainers.** Traxler, J. & Kukulska-Hulme, A. (Eds.) Routledge. ISBN 0-415-35740-2
- **How to Do Everything with your PocketPC.** Frank McPherson. Osbourne ISBN 0072229799
- **Handhelds For Doctors,** Mohammad Al-Ubaydli, John Wiley & Sons, ISBN 0470858990
- **Information Appliances and Beyond,** Eric Bergman, Morgan Kaufmann ISBN: 1558606009
- **Pervasive Computing,** Jochen Burkhardt, Addison Wesley (2002) ISBN: 0201722151
- **Zen of Palm** <http://www.palmos.com/dev/support/docs/zenofpalm.pdf>
- **The Invisible Computer,** Donald Norman, MIT Press (2002) 0 262 64041-4
- **The Palm Business Book,** Larry Becker (<http://www.thepalmbusinessbook.com/>)
- **Lose the Laptop,** Larry Becker (<http://www.losethelaptop.com/>)

Final Thoughts...

“Manifestly it is better to use simple tools expertly than to possess a bewildering assortment of complicated gadgets and either neglect or use them incompetently”

LTC Rolt, 1947

Final Thoughts...

“Manifestly it is better to use simple tools expertly than to possess a bewildering assortment of complicated gadgets and either neglect or use them incompetently”

LTC Rolt, 1947

Contact j.trinder@elec.gla.ac.uk or jont@ninelocks.com