

TRÖLLTECH®

Qtopia for KDE developers

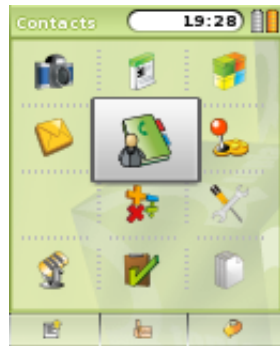
07 | 07



# That Size-and-matters-thingy

- ⏻ Remember that PC you had 5 years ago?
  - ⏻ That hardware is in your phone now

# Screens :)



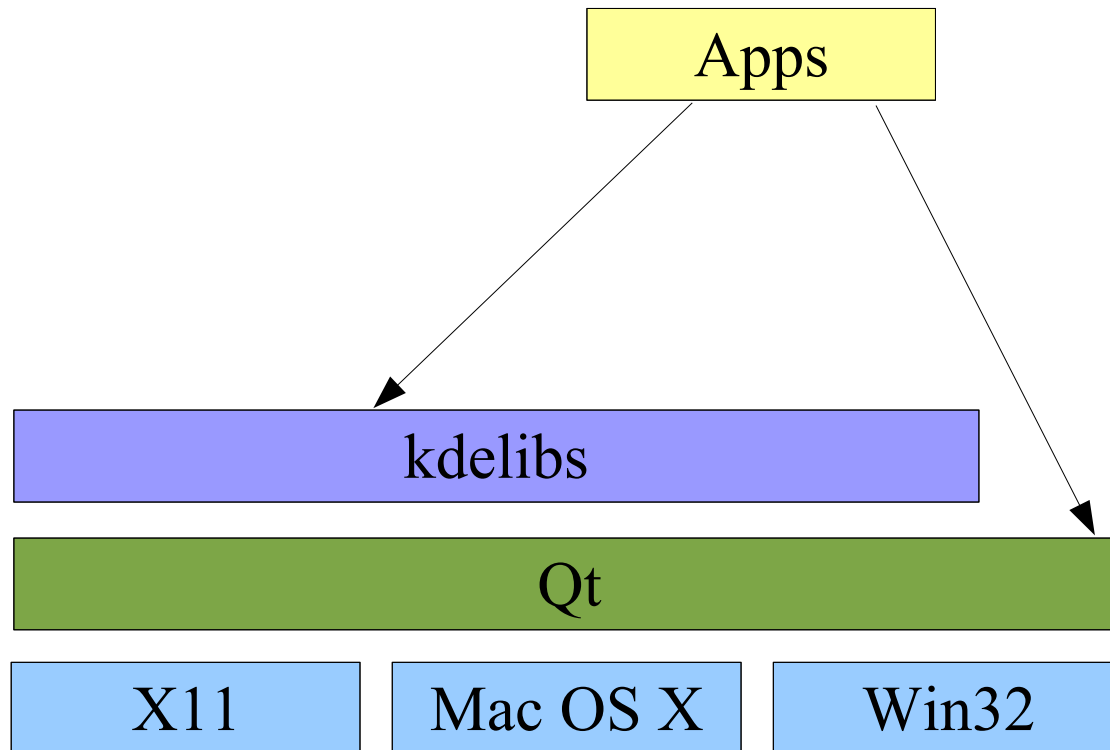
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# So what is it?

## 🔌 Qtopia contains...

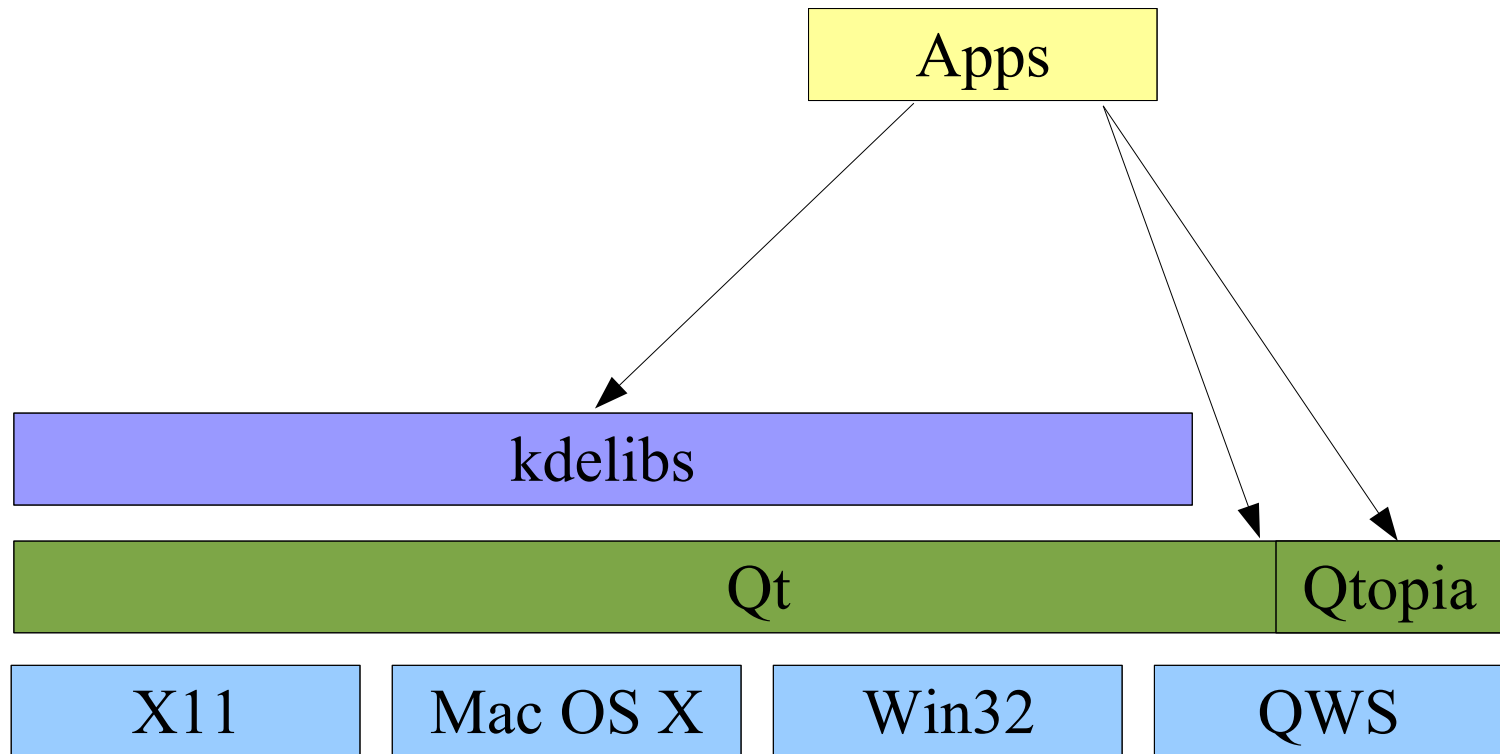
- 🔌 Qtopia Core
  - 🔌 a.k.a “Qt/embedded” - same Qt API as on the desktop
- 🔌 Qtopia Platform
  - 🔌 Gives you all those phone services (calls, messaging.....)
  - 🔌 “kdelibs” for phones
- 🔌 Qtopia Phone Edition
  - 🔌 Contains the launcher and some reference applications
  - 🔌 “kdebase” for phones

# How does Qtopia fit with KDE?



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# Anticipated Outburst I

- ⏻ But – QWS hijacks the framebuffer!
  - ⏻ You have to understand that QWS is the windowing system
  - ⏻ If your toolkit already has a WS abstraction, interface with Arthur

# No difference between Qt and Qtopia Core hacking?

- ⏻ The same Qt APIs are used to write embedded apps
  - ⏻ Note: Some parts are typically left out to save memory
  - ⏻ Okay, if you want to be a good citizen, you'll have to change some lines
  - ⏻ Yes, your desktop UI will look silly on a 176x220 display



# So how do I develop for it?

## 🔌 Easy quick solution

- 🔌 Download the VMware Image, read the quick start tutorial, start hacking

# Anticipated Outburst II

## ⏻ I don't like VMware since ...

- ⏻ ... it's slow to compile
- ⏻ ... I don't have enough RAM
- ⏻ ... I lose my super-special environment
- ⏻ ... it doesn't work on my PPC

# Anticipated Outburst II

- ⏻ I don't like VMware since ...
  - ⏻ ... it's slow to compile
  - ⏻ ... I don't have enough RAM
  - ⏻ ... I lose my super-special environment
  - ⏻ ... it doesn't work on my PPC
- ⏻ Copy the tool chain from the image to your distro
  - ⏻ ... or build it yourself, if you're tough

# So how do I develop for it?

## 🔌 Easy quick solution

- 🔌 Grab the SDK, read the quick start tutorial, start hacking

## 🔌 gph script does a lot for you

- 🔌 `gph -C x86` - sets x86 as target
- 🔌 `gph -i` - installs the current project to the phone
- 🔌 `gph -p` - creates an installable package for the current project

# Anticipated Question

🔌 Do I need a Greenphone?

🔌 No. You can use QVFB and the Phone Simulator.

# How will it go on?

- ⏻ We have some cool new stuff coming up in Qtopia 4.3
  - ⏻ Non-VMware SDK
  - ⏻ Improved Startup Times
  - ⏻ New Eye Candy
  - ⏻ Lots of under-the-hood improvements

# Hope you enjoyed!

🔌 Thank you for your attention!

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# Why is the Greenphone so expensive?

- ⏻ It's not a phone, it's a developer board
- ⏻ We created only a small amount of devices
- ⏻ We're not making any money with it – the GP is an enabler technology
- ⏻ ... and you'll get one for free if you have an interesting project.