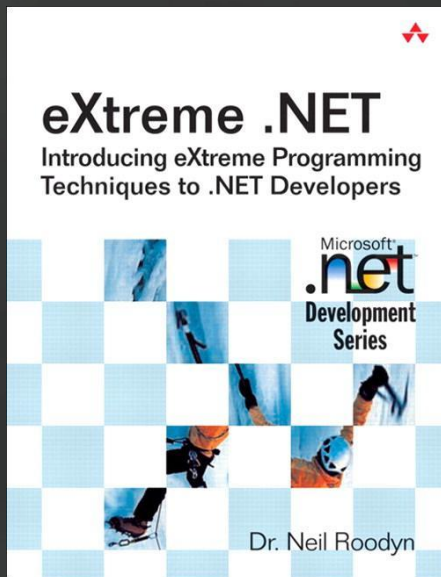


Architecting Gadgets for Online and Offline Work



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Agenda

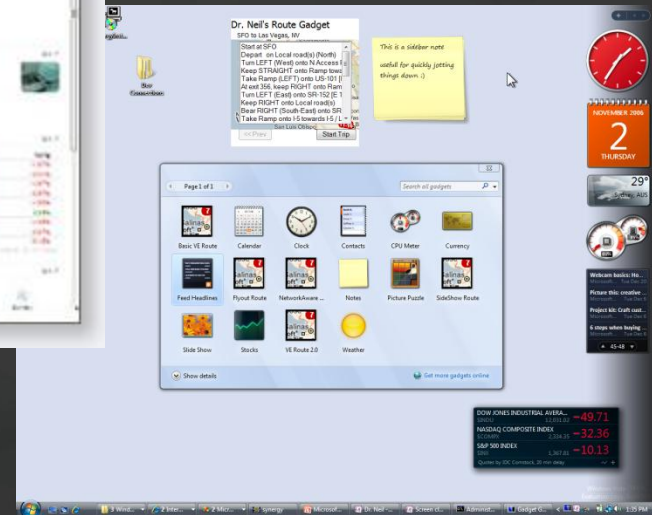
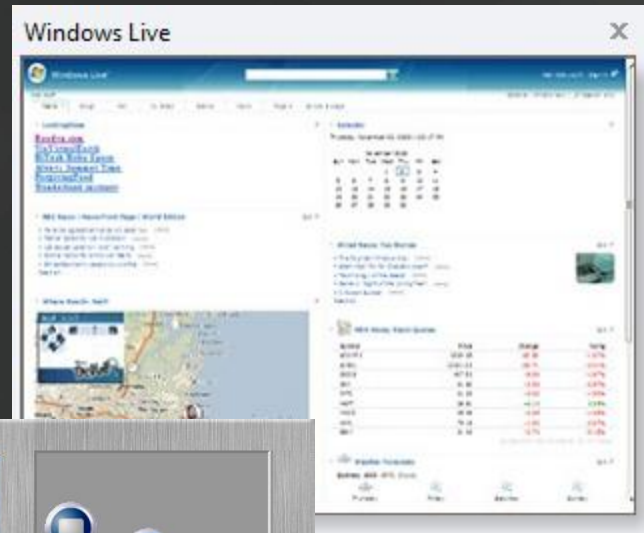
- Explore Microsoft Gadget Platforms
- Strategies for Offline Gadgets
- Gadget Demos
- Q & A

Gadget Platforms

- **Windows SideShow**
 - Extends data from the PC to devices
 - COM and C++ APIs
- **Windows Sidebar**
 - Shows information on the client
 - DHTML scripting and libraries/WPF
- **Live.com**
 - Web based with AJAX like architecture
 - Integration with client platform

Demo

- The gadget platform



Platform Benefits

- Increase application reach and visibility
- Provide user value
- Easy to write gadgets

Considerations

- Partial connectivity
 - Not guaranteed
- Smart client issues
- Web like interface

Options

- **Ignore connectivity**
 - Assume always connected ☹️
- **Alternative content**
 - Replace 'live' content with static content
- **Cached content**
 - Last received data represented
- **Mixed**
 - Alternative and Cached

Detect Connectivity

- A connection doesn't guarantee content is available
 - Hotspot but not logged in
- Use PC Network Awareness
 - Managed code library
 - Last resort use exception handler

Alternative Content

- Local storage
- Works well for some scenarios
 - Bus tracker – use timetable

Demo

- Gadget using alternative content

Route 13 - Golders Green ☒
Station


Live Bus times

1450
1505
1515
1535
1545
1605
1615
1635
1645
1705
1715
1735
1745
1805
1815

Dr. Neil's Bus Gadget

Bus Route 13

Golders Green ▲
Golders Green/ Dunstan Road / ☰
Llanvanor Roac
Childs Hill / Cas
Lyndale Avenue
Fortune Green F
Burrard Road
Studholme Cou
West End Lane ▼



20°
Sydney, AUS

Route 13 - Golders Green ☒
Station


Time Table times

1445
1500
1515
1530
1545
1600
1615
1630
1645
1700
1715
1730
1745
1800
1815

Dr. Neil's Bus Gadget

Bus Route 13

Golders Green ▲
Golders Green/ Dunstan Road / ☰
Llanvanor Roac
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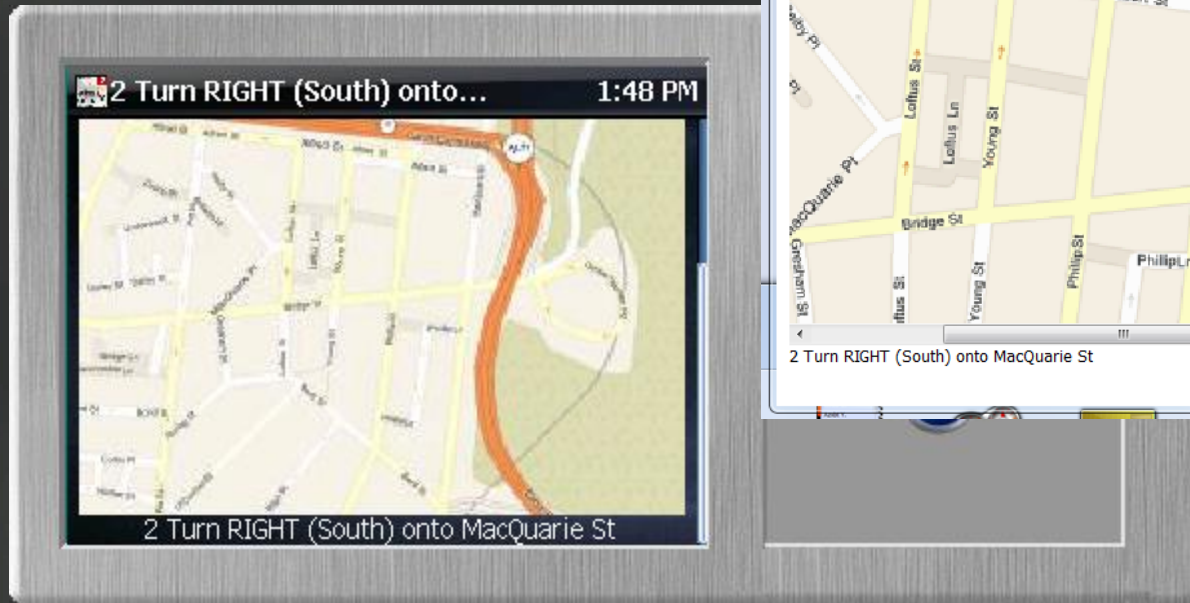
20°
Sydney, AUS

Cached content

- Create local store
- Save latest content to store
- Works well for some scenarios
 - News
 - Weather
- Downside
 - overhead required
 - No content if not connected on first run

Demo

- Gadget using cached content



A Mixed Approach

- The best of both worlds
- Cached if available
 - Otherwise alternative
- Example scenario
 - Recipe gadget
 - default recipe + recent recipes

WARNING

The worst of both worlds is also possible

Demo

- Gadget using alternative and cached content

Saucy Mushrooms

For 2 generous servings:

You will need

- 400g Mushrooms (sliced)
- 30g finely chopped parsley
- 1 Masterfoods Vegetable Concentrated Liquid Stock (14g)
- 1 egg yolg (beaten)
- 20ml lemon juice (freshly squeezed)
- 2 tablespoons of Extra Virgin Olive Oil
- pinch of salt
- freshly ground black pepper
- 1 cup (250ml) Australia's Own Malt Free Soya Drink

Method

- 1. Put 2 tablespoons of Olive Oil in frvina pan and heat

Pumpkin Pie

For the Pie, You will need

- 2 cups butternut pumpkin puree
- 1/2 Cup Caster Sugar
- 1/3 Cup Firmly packed Brown Sugar
- 3 eggs
- 1 tspn ground cinnamon
- 1 tspn ground ginger
- 1/4 tspn ground cloves
- 1/2 tspn ground nutmeg
- 1 cup Australias Own Malt Free Soy Milk
- 1/2 cup Coconut Cream
- Juice from 1/2 medium sized Lemon
- 1/2 tspn salt

For the Pie crust, You will need

Saucy Mushrooms
Pumpkin Pie
Bean Sesame

Take Action

- Build gadgets to work offline
- Utilize more opportunities
- Decide which option is correct for you

- Build awesome Gadgets that create happy customers

Thank You!

Questions?