

Desenvolvimento Móvel com Java ME

Por Victor da Cunha Luna Freire
(victor@dsc.ufcg.edu.br)



Ciclo de Seminários Técnicos



Motivação

Problema:



symbian
OS



*maemo*TM



Motivação

Solução:



Java ME

Java ME

- Componente da plataforma Java para dispositivos móveis e de recursos limitados



Java ME

- Origem:
 - 1998: Projeto Spotless
 - K Virtual Machine (KVM)
- Conhecida inicialmente como J2ME
- “Write once, run anywhere”



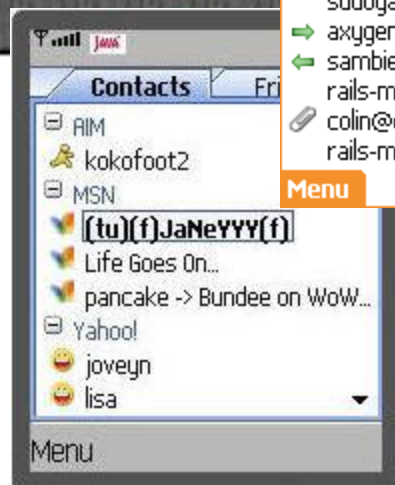
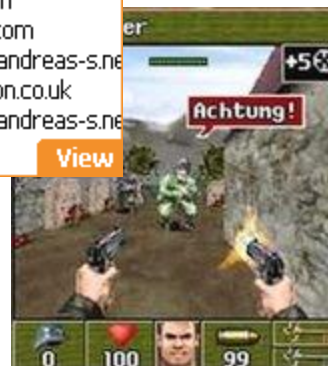
gmail.com 4/592

- + axxygen@gmail.com
- + alex@tvtransilvania.ro
- + uncertain.genius@gmail.com
- + snhorne@gmail.com

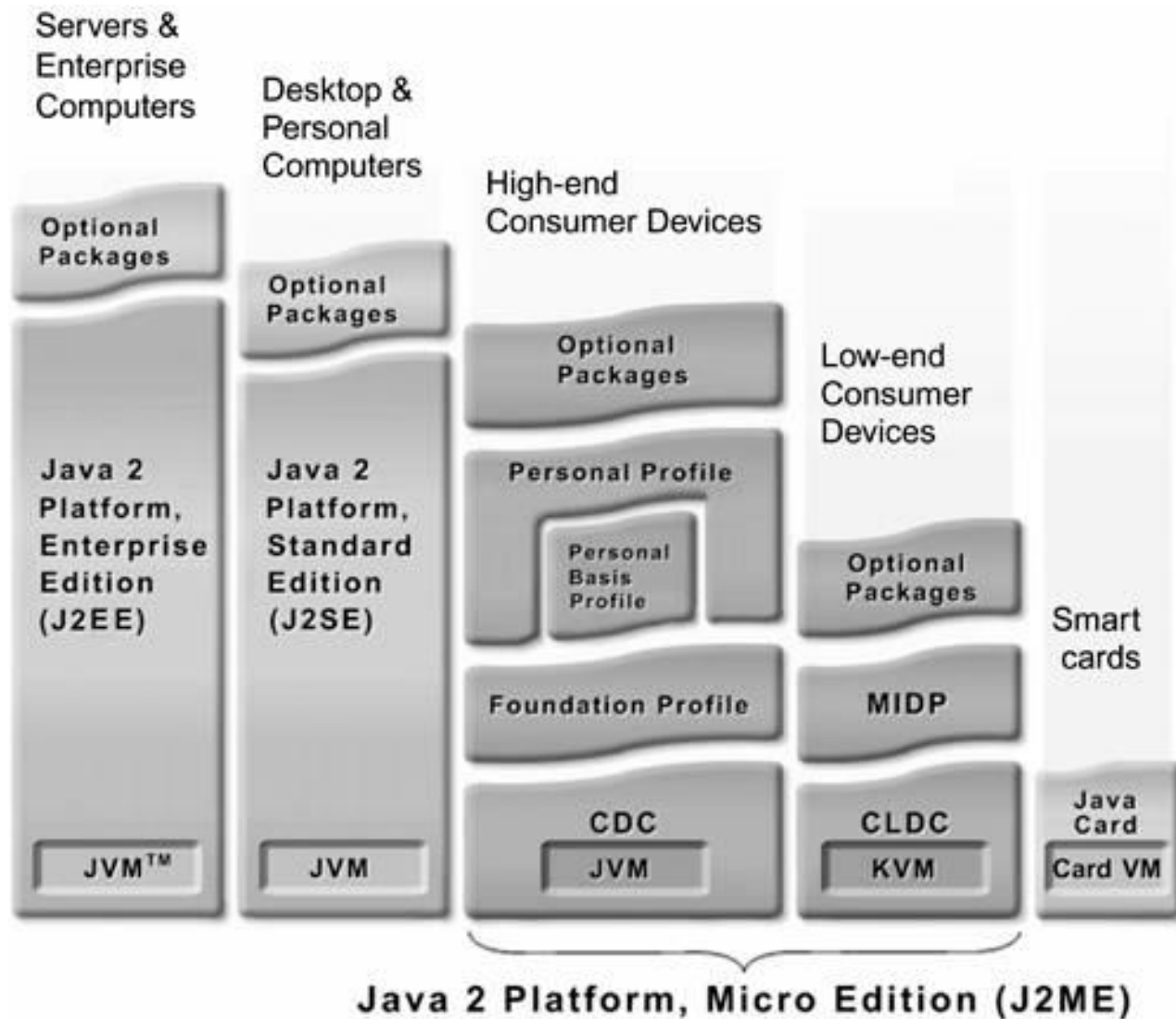
[Rails] Re: Question about e
17:25 Oct 12

- sudoyang@gmail.com
- axxygen@gmail.com
- ← sambient@gmail.com
- rails-mailing-list@andreas-s.ne
- colin@g6avk.demon.co.uk
- rails-mailing-list@andreas-s.ne

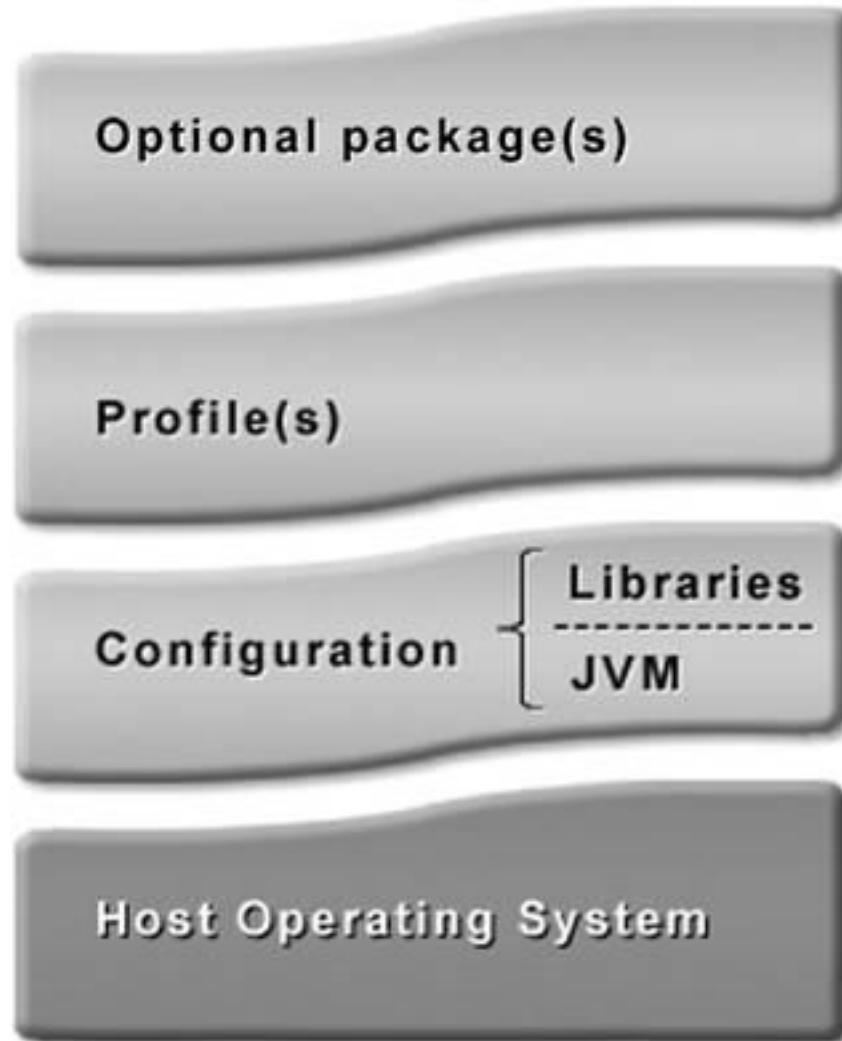
Menu View



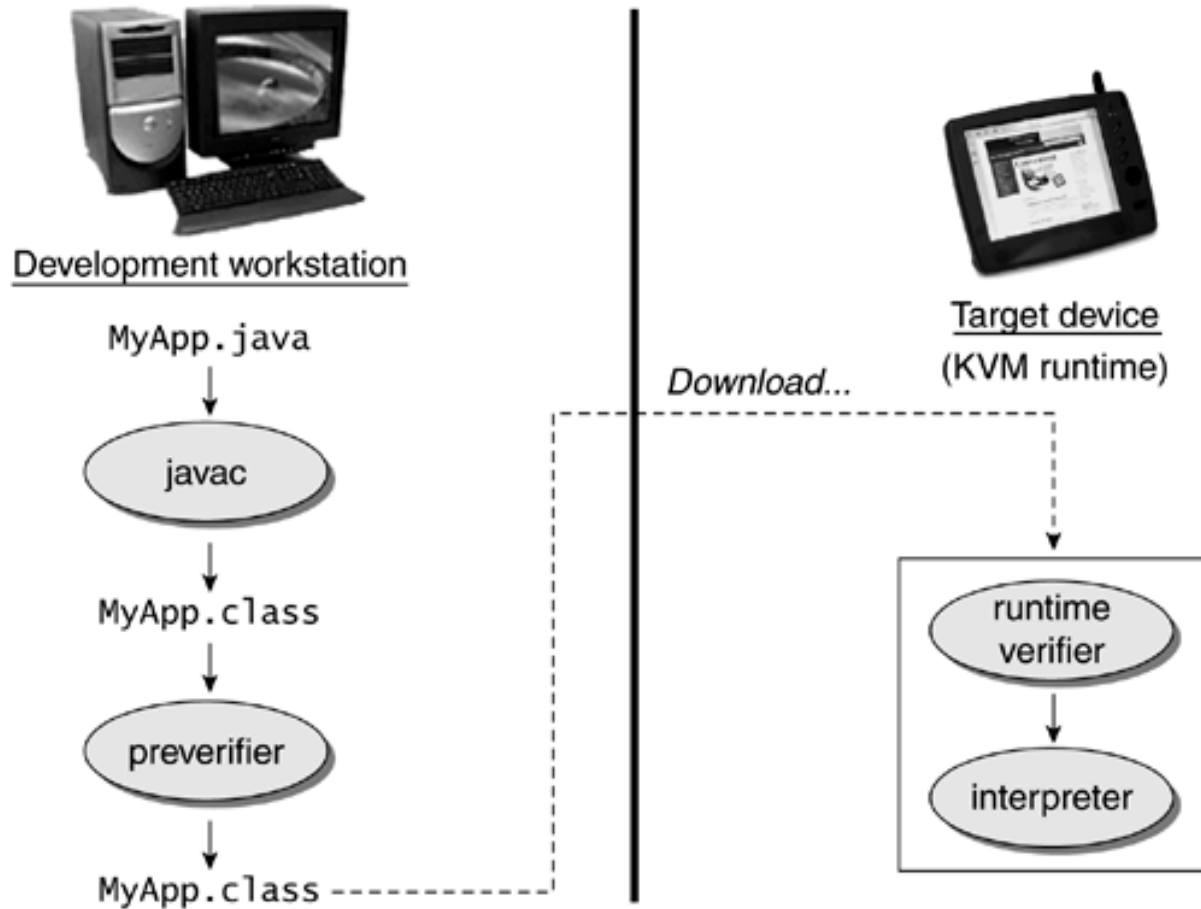
Arquitetura Java ME



Arquitetura Java ME



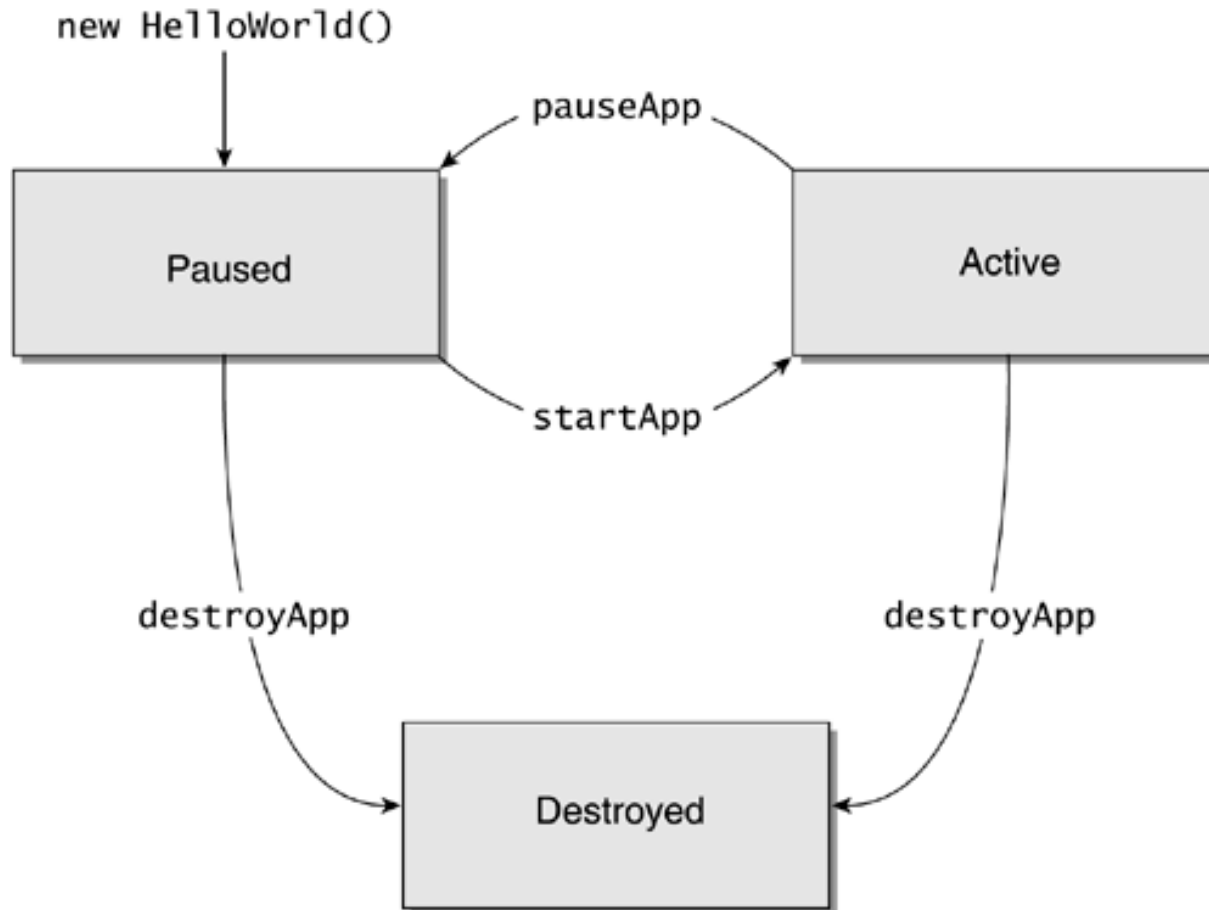
Arquitetura Java ME



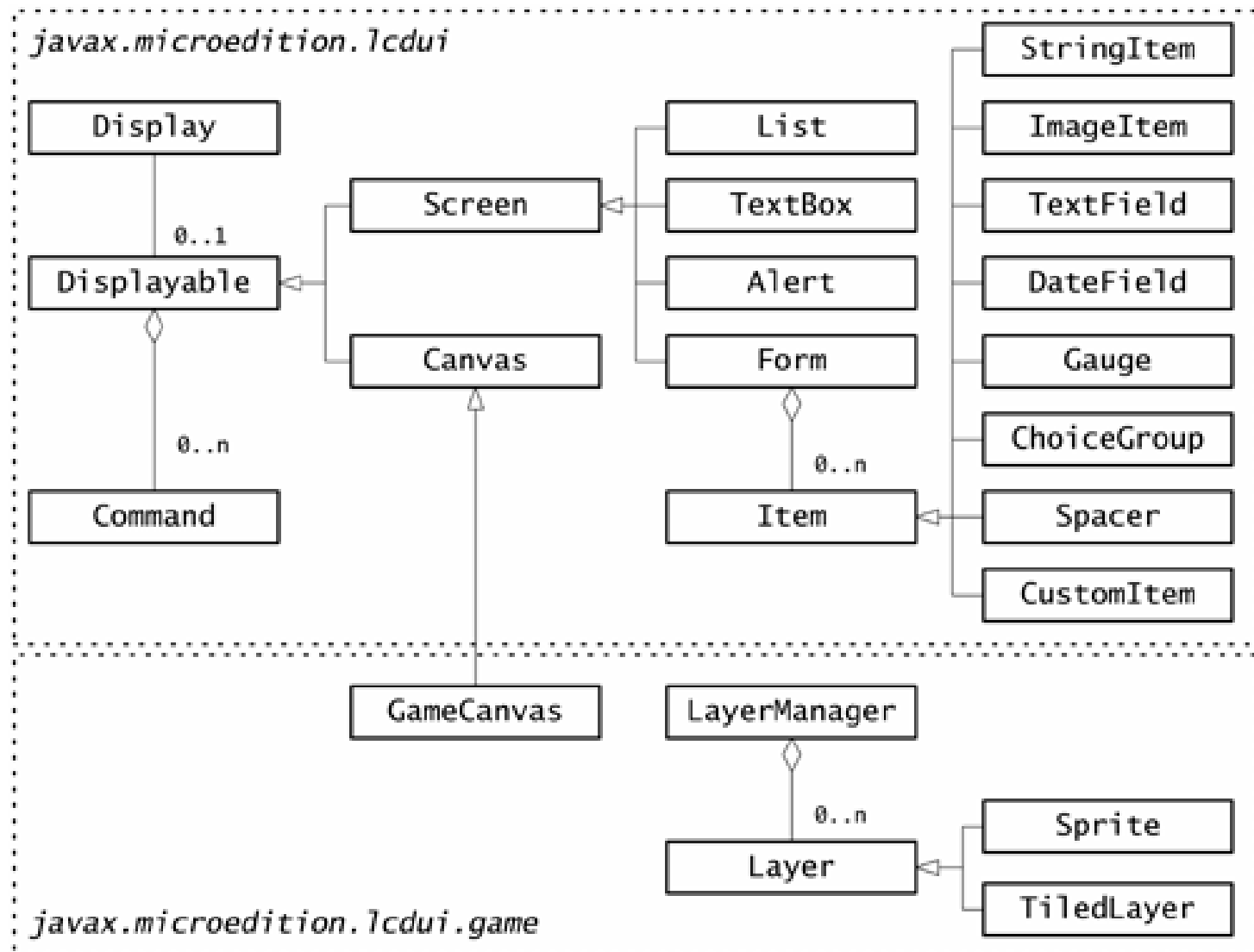
Pacotes Opcionais

- Disponibilidade varia muito
 - JSR 120: Wireless Messaging API
 - JSR 135: Mobile Media API
 - JSR 172: J2ME™ Web Services Specification
 - JSR 177: Security and Trust Services for J2ME™
 - JSR 179: Location API for J2ME™
 - JSR 184: Mobile 3D Graphics for J2ME™
 - JSR 190: Event Tracking API for J2ME™
 - (. . .)

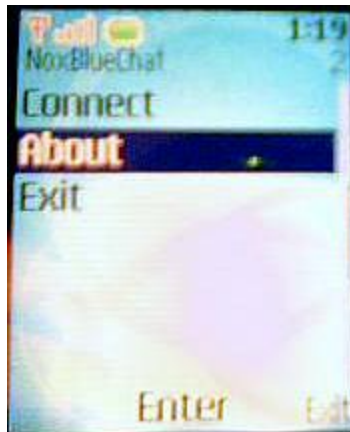
MIDlets



Interface de Usuário



Interface de Usuário



Interface de Usuário

```
class Main extends MIDlet {
    static final String APP_TITLE = "NoxBlueChat";
    static Display display;
    static Main midlet;

    ( . . . )

    public Main() {
        display = Display.getDisplay(this);
        midlet = this;
        new MainMenuView();
    }

    protected void destroyApp(boolean arg0) throws
MIDletStateChangeException {}
    protected void pauseApp() {}
    protected void startApp() throws
MIDletStateChangeException {}

    ( . . . )
}
```

```
class MainMenuView implements CommandListener {
    static final String CONNECT_STR = "Connect";
    static final String ABOUT_STR = "About";
    static final String EXIT_STR = "Exit";
    Command enterCmd;
    Command exitCmd;
    List options;

    public MainMenuView() {
        options = new List("NoxBlueChat", List.
IMPLICIT);
        options.append(CONNECT_STR, null);
        options.append(ABOUT_STR, null);
        options.append(EXIT_STR, null);

        enterCmd = new Command("Enter", Command.
ITEM, 0);
        exitCmd = new Command("Exit", Command.BACK,
0);

        options.addCommand(enterCmd);
        options.addCommand(exitCmd);
        options.setSelectCommand(enterCmd);
        options.setCommandListener(this);
        Main.getDisplay().setCurrent(options);
    }
}
```


Ferramentas de Desenvolvimento

- IDEs
 - Mobile Tools for Java (plugin do Eclipse)
 - NetBeans Mobility Pack
 - Sun Java ME SDK
 - (. . .)
- Emuladores

Bibliografia



Programming Wireless Devices with the Java™
2 Platform, Micro Edition, Second Edition

Autores: Riggs et al.

Editora: Addison Wesley

Dúvidas?



Victor Freire – victor@dsc.ufcg.edu.br