KDE FRAMEWORKS

ΕΠΙΜΕΛΕΙΑ:ΤΣΙΑΠΑΛΙΩΚΑΣ ΓΙΩΡΓΟΣ

About Me

->Linux/foss:Απο τον Μαρτιο του 2010
->KDE plasma Developer απο τον Απριλιο του 2011
->contributing στο plasmate project

Aplications και frameworks

->Το KDE ειναι ενα framework και οχι ενα desktop enviroment
http://kde-apps.org
->SC,extragear,playground

KDE frameworks+SC+extragear=KDE desktop enviroment

SC,playground,extragear

->SC=Software compiliation
το release που γινεται καθε 6 μηνες,γνωστο ως desktop environ
->extragear
εφαρμογες οι οποιες δεν ακολουθουνε το release cycle του SC
->playground
Εφαρμογες οι οποιες ειναι σε alpha/beta σταδιο

[OBJ] -> http://community.kde.org/KDE_Core/Platform_11

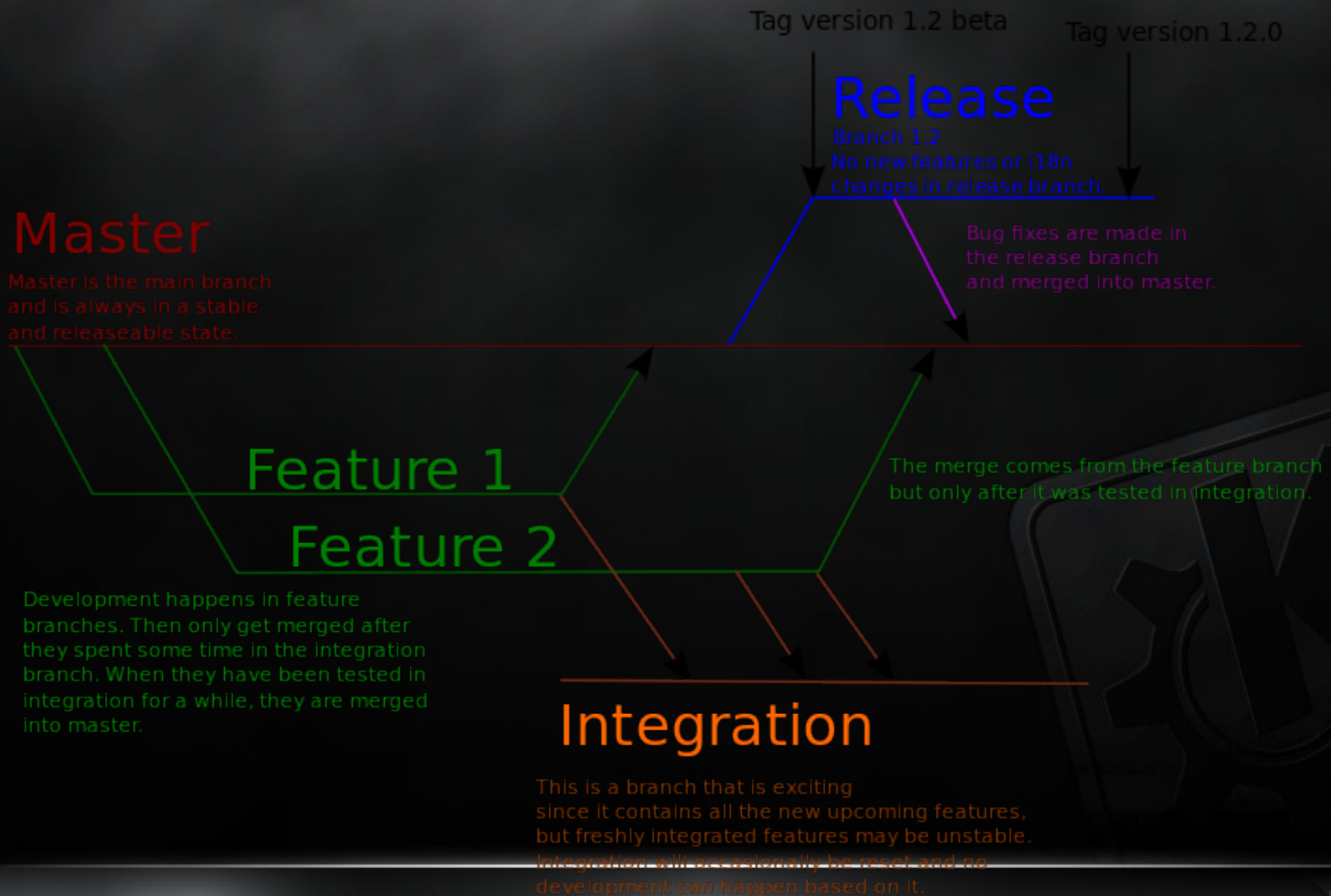Ιουνιος 1-7 2011

->νεα major release version του KDE aka KDE 5

(Μολις δημιουργηθει το master για το 4.9)

->νεο git workflow policy
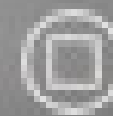
->νεο policy σχετικα με τον διαχωρισμο των library

Tag version 1.2 beta

Tag version 1.2.0

Release

Branch 1.2
No new features or i18n
changes in release branch.

Bug fixes are made in
the release branch
and merged into master.

Master

Master is the main branch
and is always in a stable
and releaseable state.

The merge comes from the feature branch
but only after it was tested in integration.

Feature 1

Feature 2

Development happens in feature
branches. Then only get merged after
they spent some time in the integration
branch. When they have been tested in
integration for a while, they are merged
into master.

Integration

This is a branch that is exciting
since it contains all the new upcoming features,
but freshly integrated features may be unstable.
Integration will occasionally be reset and no
development can happen based on it.

Hello KDE Programming

<u>o</u>pen the menu

```
1  /**KDELIBS CODING STYLE*/
2  #ifndef hellokdeprogramming_H /** etsi orizoume to onoma tou header wste na mporei o gcc na to diavasei*/
3  #define hellokdeprogramming_H
4
5  #include <QtGui/QDialog> /**the inheritence for the base class*/
6  //#include <KPushButton>/**logou tou m_textButton,tha katalavete meta :P*/
7
8  /**declare ta 2 class pou tha xrisimopoihsoume*/
9  class KPushButton;
10 class KMenu;
11
12 class hellokdeprogramming : public QDialog
13 {
14 Q_OBJECT /**macro to opoio xrisimopoihsoume logo tou CMAKE,wste na mporei o moc compiler na kanei·
15        swsta ta connect twn object*/
16
17 public:/**keyword gia ta public methods*/
18     /** ta public methods einai accessible apo class ta opoia kanoune inherit to class mas*/
19     hellokdeprogramming();/**constructor*/
20     virtual ~hellokdeprogramming();/**destructor*/
21
22
23 public Q_SLOTS:/**keyword gia ta public SLOTS*/
24     void initConfig();/**Apla ena slot*/
25
26 private:/**keyword gia private methods*/
27     /** ta public methods einai accessible apo class ta opoia kanoune inherit to class mas*/
28
29     /** ena aplo declare twn object mas*/
30     KPushButton* m_menuButton;
31     //KPushButton m_textButton;
32     KMenu* m_menu;
33 };
34
35 #endif // hellokdeprogramming_H
36
```

```cpp
1  /** Qt Libs*/
2  #include <QtCore/QString>
3  #include <QtGui/QHBoxLayout>
4
5  /**KDE libs*/
6  #include <KConfig>
7  #include <KConfigGroup>
8  #include <KLocalizedString>
9  #include <KMessageBox>
10 #include <KMenu>
11 #include <KPushButton>
12
13 /**our libs*/
14 #include "hellokdeprogramming.h"
15
16 /**akolouthei define tou constructor
17 edw tha dimiourgithei to default UI*/
18 hellokdeprogramming::hellokdeprogramming()
19 {
20     setMinimumSize(300,100);/**orizoume to mikrotero megethos tou window na einai (300,100)*/
21     setWindowTitle("Hello KDE Programming");/**orizoume to name tou window*/
22     QHBoxLayout *hoz = new QHBoxLayout;/**kanoume allocate ena kainourgio memory*/
23
24     m_menuButton = new KPushButton(i18n("open the menu"));/**to idio me prin,alla edw orizoume kai to name tou KPushButton*/
25     m_menu = new KMenu(i18n("create config giles"));/**to idio me prin,alla edw orizoume kai to name tou KMenu*/
26     //m_textButton.setText("i am a seText() button");
27
28     m_menu->addAction(i18n("create config giles"), this, SLOT(initConfig()));/**arxizoune ta wraia...*/
29     /**sindeoume to method tou object mas me ena allo object kai orizoume to name tou action*/
30
31     m_menuButton->setMenu(m_menu);/**orizoume to menu mas*/
32     /**GENIKA STA QT/KDE FRAMEWORKS,otan vlepoume setFOO(),orizoume kati,kai otan vlepoume foo() epistrefoume tin timi tou
33     foo.*/|
34
35     //hoz->addWidget(&m_textButton);/**prosthesame to "&" epeidi to m_textButton den einai pointer.(Katalavate ti ennow:P)*/
36     hoz->addWidget(m_menuButton);/**prosthetoume to button mas sto layout*/
37     setLayout(hoz);/**prosthetoume to layout sto window*/
38 }
```

```cpp
40 /**akolouthei define tou destructor*/
41 hellokdeprogramming::~hellokdeprogramming()
42 {
43     /**kanoume free to memory twn "global" object*/
44     delete m_menu;
45     delete m_menuButton;
46     /** Einai lathos i epomeni grammi,MONO POINTERS mpainoune sto destructor
47     delete m_textButton;
48     */
49 }
50
51 /**akolouthei define tou initConfig()
52 edw tha ginei oti exei sxesi me ta config files*/
53 void hellokdeprogramming::initConfig()
54 {
55     QString dialog;/**declare*/
56
57     dialog = i18n("Do you want to create the config files");/**define to string pou tha emfanistei*/
58     const int code = KMessageBox::questionYesNo(this, dialog);/**this created the messagebox*/
59
60     /**ena aplo flow control*/
61     if (code != KMessageBox::Yes) {
62         return;
63     }
64
65     dialog = i18n("hello people");/**define to orisma pou tha xreiastoume*/
66
67     /**dimiourgoume ta Kconfig groups me 2 diaforetikous tropous*/
68     KConfigGroup cg = KGlobal::config()->group("Classic way group!");
69     KConfigGroup cg2(KGlobal::config(),"the parametre way!");
70
71     /**to writeEntry den grafei sto arxeio mas,apla orizoume to ti theloume na grapsoume*/
72     cg.writeEntry("entry","I am an entry");
73     cg.writeEntry("welcome",dialog);
74     QString welcome = i18n("welcome");
75     cg2.writeEntry(welcome,dialog);
76
```

```
76
77      /**to sync() einai auto to opoio "grafei" mesa sto arxeio*/
78      cg.sync();
79      cg2.sync();
80
81      /**same as before*/
82      dialog = i18n("Ta config files dimiourgithikan!");
83      KMessageBox::information(this, dialog);
84 }
85
86 /**POWERED BY KDEVELOP!!!!!*/
87
88 #include "hellokdeprogramming.moc"/**just do it!
89                                     ofeiletai sto CMAKE*/
90
```

```cpp
/**KDELIBS CODING STYLE*/
#ifndef hellokdeprogramming_H /** etsi orizoume to onoma tou header wste na mporei o gcc na to diavasei*/
#define hellokdeprogramming_H

#include <QtGui/QDialog> /**the inheritence for the base class*/
//#include <KPushButton>/**logou tou m_textButton,tha katalavete meta :P*/

/**declare ta 2 class pou tha xrisimopoihsoume*/
class KPushButton;
class KMenu;

class hellokdeprogramming : public QDialog
{
Q_OBJECT /**macro to opoio xrisimopoihsoume logo tou CMAKE,wste na mporei o moc compiler na kanei·
         swsta ta connect twn object*/

public:/**keyword gia ta public methods*/
    /** ta public methods einai accessible apo class ta opoia kanoune inherit to class mas*/
    hellokdeprogramming();/**constructor*/
    virtual ~hellokdeprogramming();/**destructor*/


public Q_SLOTS:/**keyword gia ta public SLOTS*/
    void initConfig();/**Apla ena slot*/

private:/**keyword gia private methods*/
    /** ta public methods einai accessible apo class ta opoia kanoune inherit to class mas*/

    /** ena aplo declare twn object mas*/
    KPushButton* m_menuButton;
    //KPushButton m_textButton;
    KMenu* m_menu;
};

#endif // hellokdeprogramming_H
```

```
1  #include <kapplication.h>
2  #include "hellokdeprogramming.h"
3  #include <kaboutdata.h>
4  #include <KCmdLineArgs>
5  #include <KLocale>
6
7  int main(int argc, char** argv)
8  {·
9      KAboutData aboutData(
0                          /** The program name used internally.*/
1                          "hellokdeprogramming",
2
3                          /** The message catalog name
4                          If null, program name is used instead.*/
5                          0,
6                          /** A displayable program name string*/
7                          ki18n("Hello KDE Programming"),
8
9                          // The program version string.*/
0                          "Alpha 1",
1
2                          /** Short description of what the app does.*/
3                          ki18n("Just a simple KDE application.."),
4
5                          /** The license this code is released under*/
6                          KAboutData::License_GPL,
7
8                          /** Copyright Statement*/
9                          ki18n("(c) 2011"),
0
1                          /**Optional text shown in the About box.
2                          Can contain any information desired.*/
3                          ki18n("Powered by the KDE Frameworks"),
4
5                          /** The program homepage string.*/
6                          "http://kde.org",
7
8                          /** The bug report email address*/
```

```cpp
                        ki18n("Hello KDE Programming"),

                        // The program version string.*/
                        "Alpha 1",

                        /** Short description of what the app does.*/
                        ki18n("Just a simple KDE application.."),

                        /** The license this code is released under*/
                        KAboutData::License_GPL,

                        /** Copyright Statement*/
                        ki18n("(c) 2011"),

                        /**Optional text shown in the About box.
                        Can contain any information desired.*/
                        ki18n("Powered by the KDE Frameworks"),

                        /** The program homepage string.*/
                        "http://kde.org",

                        /** The bug report email address*/
                        "http://redmine.terietor.gr");
    /**Sets the authors information*/
    aboutData.addAuthor(ki18n("Giorgos Tsiapaliwkas"),ki18n("Author"),"terietor@gmail.com");

    /**Sets the application's icons.
    Hello PLASMATE!!!:P*/
    aboutData.setProgramIconName("plasmagik");

    KCmdLineArgs::init(argc,argv,&aboutData );

    KApplication app;
    hellokdeprogramming* widget = new hellokdeprogramming();
    widget->show();

    return app.exec();
}
```

```
$ ./hellokdeprogramming --help
Usage: hellokdeprogramming [Qt-options] [KDE-options]

Just a simple KDE application..

Generic options:
  --help                Show help about options
  --help-qt             Show Qt specific options
  --help-kde            Show KDE specific options
  --help-all            Show all options
  --author              Show author information
  -v, --version         Show version information
  --license             Show license information
  --                    End of options
stella-compiling::kde-devel->dir(~/codeSnippets/helloKDEProgramming/terietor/build)
$ ./hellokdeprogramming -v
Qt: 4.7.3
KDE Development Platform: 4.7.40 (4.7.40 (KDE 4.8 >= 200110623)
Hello KDE Programming: Alpha 1
stella-compiling::kde-devel->dir(~/codeSnippets/helloKDEProgramming/terietor/build)
$ ./hellokdeprogramming -author
Hello KDE Programming was written by
    Giorgos Tsiapaliwkas <terietor@gmail.com>
Please report bugs to http://redmine.terietor.gr.
stella-compiling::kde-devel->dir(~/codeSnippets/helloKDEProgramming/terietor/build)
```