



Développement du module d'annotation dans OOo Impress

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Centrale Nantes et le Libre



Collaborations

- ▶ MarkUs
- ▶ OrbisGis (*via* IRSTV)
- ▶ OpenOffice.org OpenOffice.org4Kids

OOo/00o4Kids à Centrale Nantes

The background features a row of seven colored pencils (red, orange, yellow, green, blue, purple) at the top right, with lines of the same colors extending diagonally across the slide.

Concours HP - 21 Tablet PCs gagnés en 2008

- ▶ Cartable électronique libre
- ▶ GNU/Linux
- ▶ Amélioration d'OpenOffice.org Impress pour les Tablet-PCs

OOo/OOo4Kids à Centrale Nantes

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Module d'annotation dans OpenOffice

- ▶ Codé en C++
- ▶ Possibilité de changer
 - ▶ taille
 - ▶ couleur

OOo/OOo4Kids à Centrale Nantes

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OOo4Kids

- ▶ Logiciel de bureautique libre et gratuit pour les 7-12 ans
- ▶ OpenOffice.org simplifié
- ▶ Adapté aux programmes d'enseignement.

Module d'annotations



2009

- ▶ Gomme
- ▶ Sauvegarde des annotations

Module d'annotations



2009

- ▶ Debogage des patches des années précédentes
- ▶ Switch entre gomme et crayon

Module d'annotations



2011 : Objectifs

- ▶ Mode curseur
- ▶ Extensibilité

Travail préliminaire



Documentation

- ▶ Rapports des années précédentes
- ▶ Wiki OOo4Kids
- ▶ Conventions de codage
- ▶ Documentation Libre Office

Travail préliminaire



Cahier des charges

- ▶ Maquettes UI
- ▶ Diagrammes d'état

Travail préliminaire

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Environnement de développement

- ▶ Compilation (dmake, ccache, distcc)
- ▶ Debian, Ubuntu, Gentoo
- ▶ Versionnement (SVN, Hg, Git)

Démarche de développement

A hand holding several colored pencils (red, orange, yellow, green, blue, purple) is shown in the top right corner. From the tips of the pencils, lines of corresponding colors extend diagonally across the page towards the bottom left, creating a rainbow effect.

Mimétisme

- ▶ Modifications minimales
- ▶ Reprise des structures existantes
- ▶ Respect de la localité

Démarche de développement

A hand holding several colored pencils (red, orange, yellow, green, blue, purple) is shown in the top right corner. From the tips of the pencils, lines of corresponding colors extend diagonally across the slide towards the bottom left.

Pattern commando

- ▶ grep sauvage
- ▶ Modifications minimales et localisées

Démarche de développement

A hand holding several colored pencils (red, orange, yellow, green, blue, purple) is shown in the top right corner. From the tips of the pencils, lines of corresponding colors extend diagonally across the page towards the bottom left.

3 phases

- ▶ Logique métier
- ▶ Interface utilisateur
- ▶ Branchements

Assurance Qualité

The image features six colored pencils (red, orange, yellow, green, blue, and purple) arranged in a fan shape at the top right. From the tips of the pencils, seven parallel lines of corresponding colors extend diagonally across the white background towards the bottom left.

Documentation

- ▶ Comptes-rendus réguliers
- ▶ Peu de choix à expliciter

Assurance Qualité



Revue de code

- ▶ Patches courts
- ▶ Revue effectuée par Éric
- ▶ Pair programming = revue "à la volée"

Assurance Qualité



Critères à respecter

- ▶ Compilation sans warnings
- ▶ Patches cohérents

Cadre pédagogique



Encadrants

- ▶ Tuteur enseignant : Morgan Magnin
- ▶ Mentor technique : Éric Bachard

Cadre pédagogique



Anciens élèves

- ▶ Rapports
- ▶ Retours d'expérience

Cadre pédagogique



Communication

- ▶ Wiki
- ▶ IRC
- ▶ Blog

Difficultés



Processus lourd

- ▶ Compilation difficile
- ▶ Temps de compilation importants
- ▶ Intégration compliquée

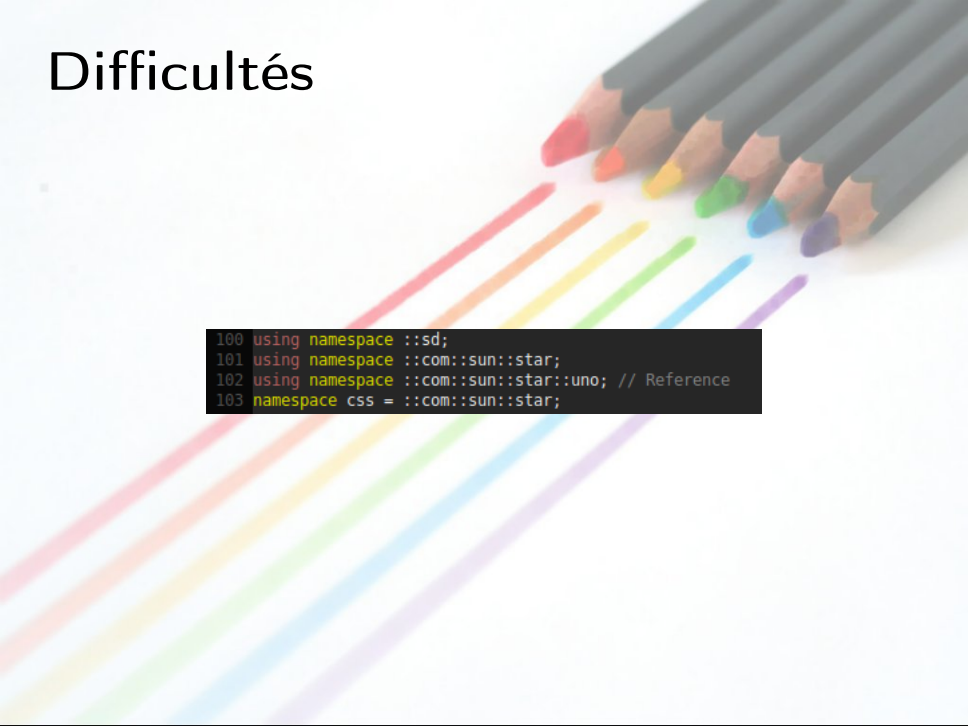
Difficultés

Base de code de qualité inégale

- ▶ Cohérence faible
- ▶ Code mal commenté

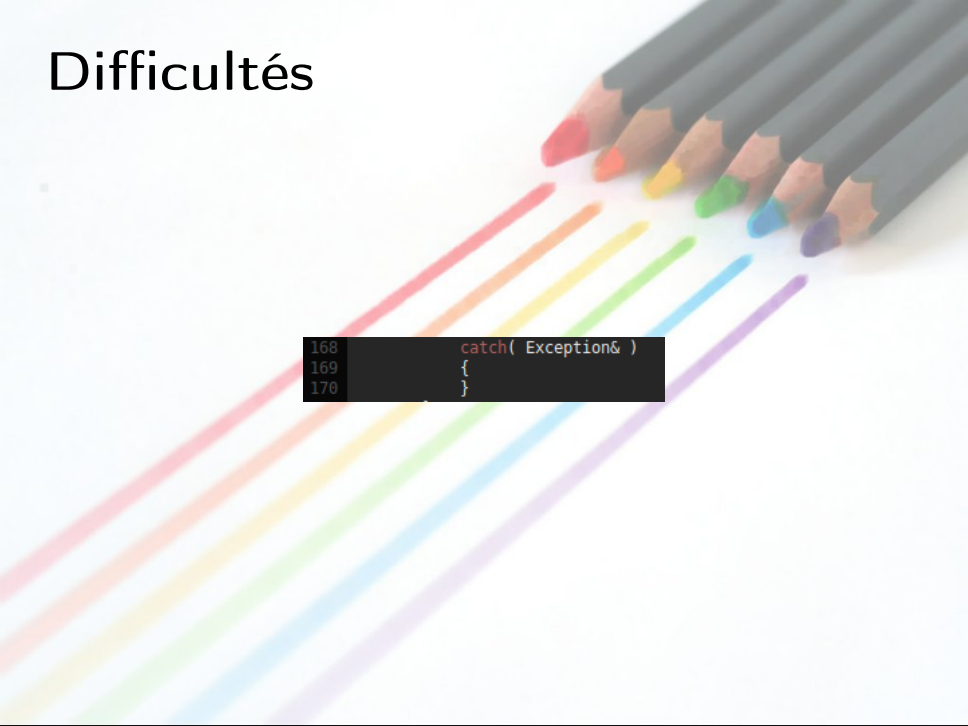


Difficultés

A row of six colored pencils (red, orange, yellow, green, blue, purple) is shown at the top right, with lines drawn on a white surface extending from their tips towards the bottom left. The lines are colored to match the pencils. A black rectangular box containing C++ code is overlaid on the lower part of the image.

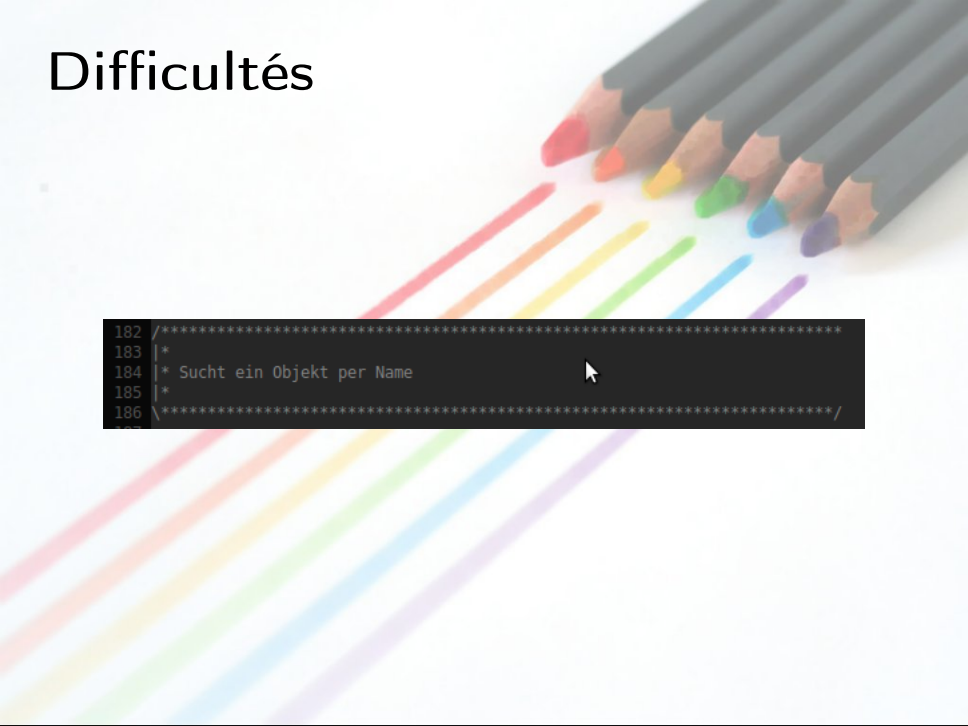
```
100 using namespace ::sd;  
101 using namespace ::com::sun::star;  
102 using namespace ::com::sun::star::uno; // Reference  
103 namespace css = ::com::sun::star;
```

Difficultés



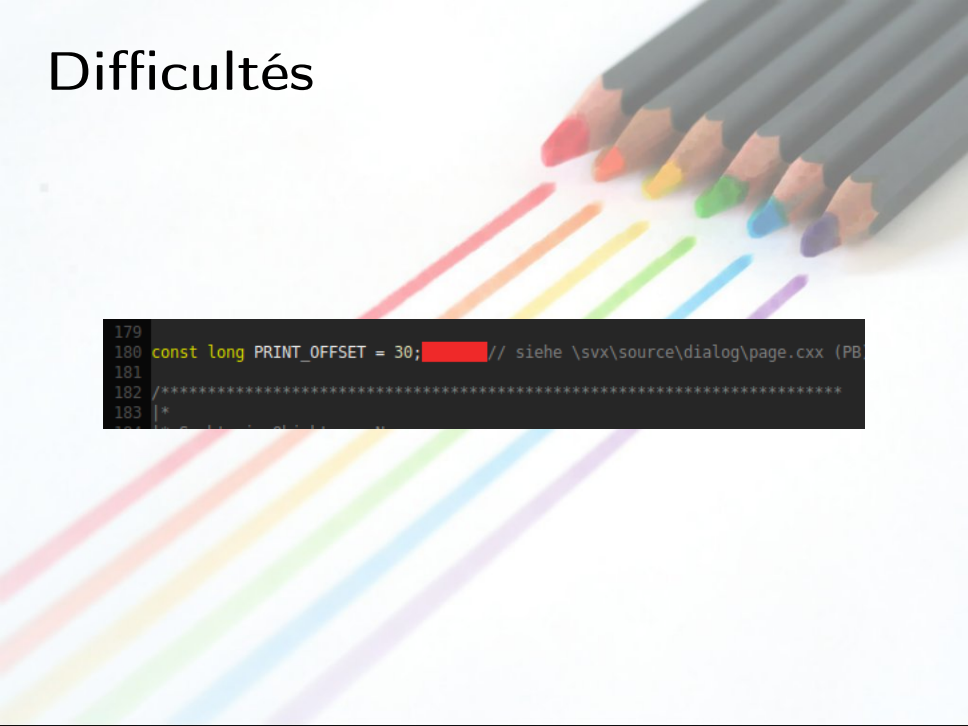
```
168 catch( Exception& )  
169 {  
170 }
```


Difficultés




```
182 /*****  
183 *  
184 * Sucht ein Objekt per Name  
185 *  
186 /***** /
```

Difficultés




```
179
180 const long PRINT_OFFSET = 30; ██████████ // siehe \svx\source\dialog\page.cxx (PB
181
182 /*****
183 | *
184 |
```

Difficultés



```
182 /*****  
183 |*  
184 |* Sucht ein Objekt per Name  
185 |*  
186 \*****/
```

Difficultés




```
1159  
1160 /*****  
1161 |*  
1162 |* Wenn der WorkStartupTimer erzeugt worden ist (das erfolgt ausschliesslich  
1163 |* in SdDrawViewShell::Construct() ), so wird der Timer ggf. gestoppt und  
1164 |* das WorkStartup eingeleitet  
1165 |*  
1166 \*****/  
1167
```

Difficultés



```
1205 /*****  
1206 |*  
1207 |*  
1208 |*  
1209 \*****/  
1210
```

Difficultés



```
986 [REDACTED] // hide child windows  
987 [REDACTED] hideChildWindows();  
988
```

Apports



Projet libre

- ▶ Code publié
 - ▶ Valorisation
 - ▶ Assurance qualité
- ▶ Satisfaction personnelle
- ▶ "Gros" projets

Apports



Gros projet

- ▶ Connu, reconnu
- ▶ Base de code importante
- ▶ Processus stricts

Bilan

Caractéristiques communes

- ▶ Petits patches
- ▶ Travail important



Bilan



Perspectives

- ▶ Intégration à OpenOffice.org et/ou LibreOffice
- ▶ Améliorations
- ▶ Documentation

Bilan



Questions ?