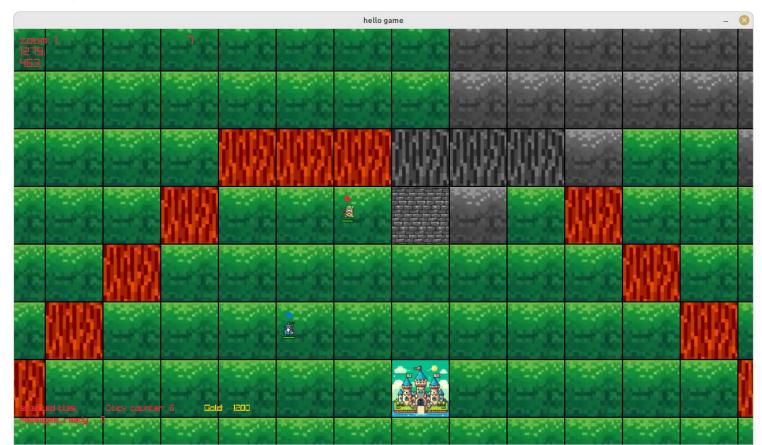
Projet Long

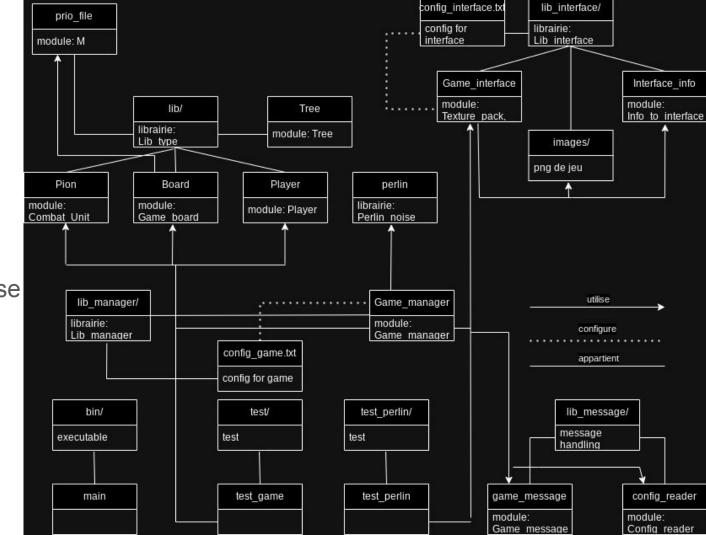
Mathieu Crocombette--Pasquet Philippe Hinault

Présentation général du jeu



Architecture

Diagramme de classe



Programmation:

Evolutive

Multijoueur

Génération aléatoire

Robuste

Code testé

Code sûr

Modulaire

• Structure de données

Architecture

Difficultés rencontrées

Redondance des données

Gestion de l'interface utilisateur

Programmation

365 366

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```
let rec a star : 'a Prio file.t -> 'b Tree.t -> int*int -> board ref -> 'b Tree.t = fun noeud prio tree PCC (xf,yf) board ->
  let weight, (xc,yc), temp prio file = Prio file.pop smallest noeud prio in
 let prio add coord prio =
     if Tree.exists (fun k -> k=coord) tree PCC then prio
     else
        match field travelling (get type tile board (fst coord) (snd coord)) with
          Some x -> Prio file.add prio (weight + x ) coord
         None -> prio
  let tree add : Tree.key -> 'b Tree.t -> 'b Tree.t = fun coord tree ->
     if Tree.exists (fun k -> k=coord) tree PCC then tree
     else Tree.add coord (xc.vc) tree
  in
  let next prio file = (add adj temp prio file xc yc prio add board) in
  let next tree = (add adj tree PCC xc yc tree add board) in
  if ((xc,yc) = (xf,yf)) || (Prio file.is empty next prio file) then
     tree PCC
  else
      a star next prio file next tree (xf,yf) board;;
let find path : int -> int -> int -> int -> board ref -> Tree.key list = fun xd yd xf yf board ->
  let tree PCC = Tree.empty in
  let noeud prio = Prio file.empty in
  let res = a star (Prio file.add noeud prio 0 (xd,yd)) (Tree.add (xd,yd) (xd,yd) tree PCC) (xf,yf) board in
  Tree.chemin racine res (xf,yf) []
```

Conclusion

Ce que nous ajouterions

- Une IA avec un algorithme d'élagage
- Un mode multijoueur

Ce que nous changerions

- Supprimer la redondance des données
- Meilleur organisation du travaille