

# Architecture et Algorithmes

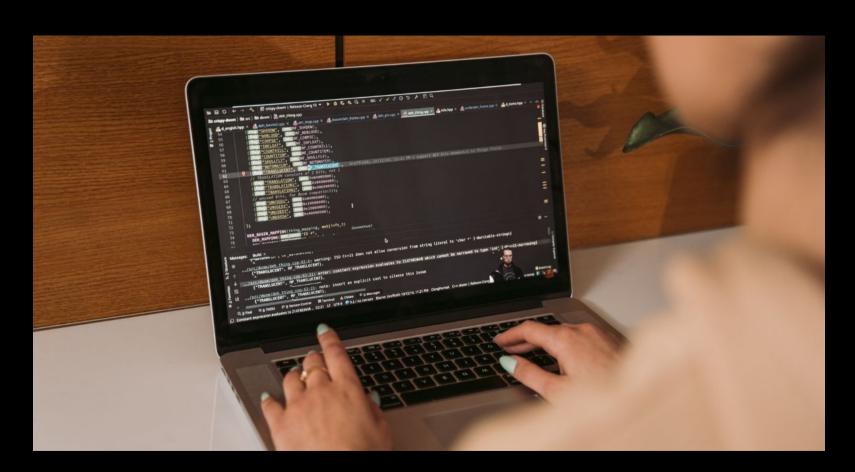
Entre Open-Source et Exploitation Commerciale



#### PARTIE 1

Architecture et algorithmes? Les courants computationnels en architecture







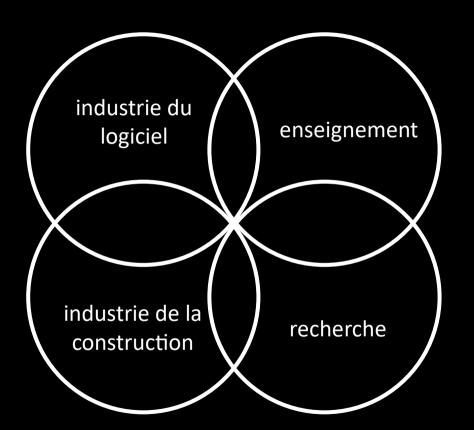
les pratiques computationnelles c'est rendre l'architecture calculable



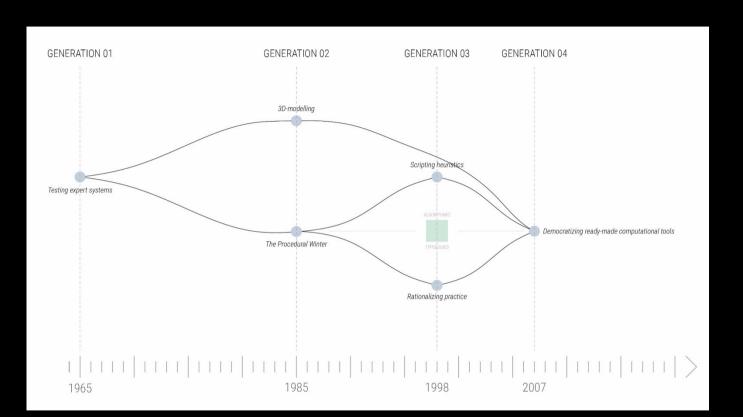


Architecture Machine Group, MIT, 1965

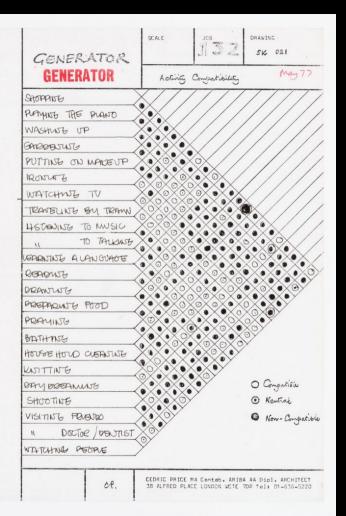














## GENERATOR



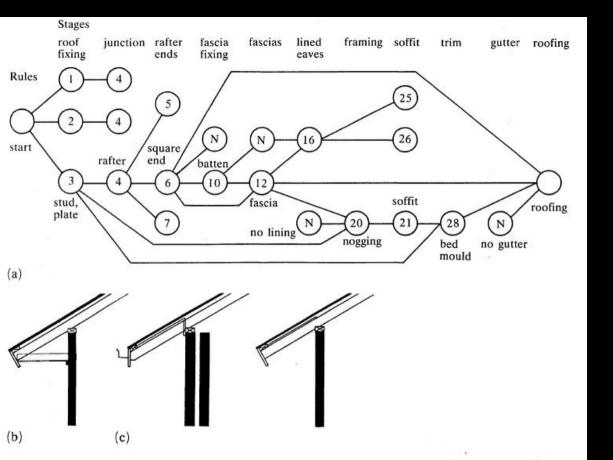


Figure 6. (a) Links between EAVE rules in the generation of design (b). For a rule to fire, the earlier (lower number) rules to which it is linked by a heavy line must also be fired. (c) Two other designs.



**EAVE** system



Babi Yar Memorial Competition Entry, kokkugia





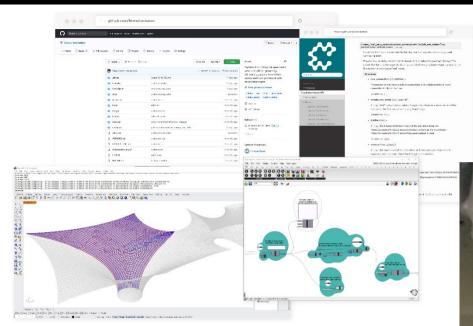
Computational Arrangement of Demolition Debris, Daniel Marshall



#### **PARTIE 2**

Faire ses propres outils, un passage obligé





Cockatoo, Max Benjamin Eschenbach

A Bridge Too Far, CITA (KADK)

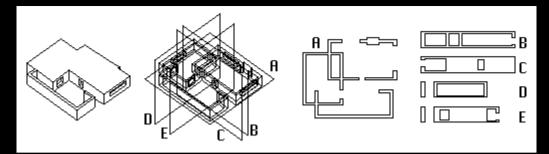


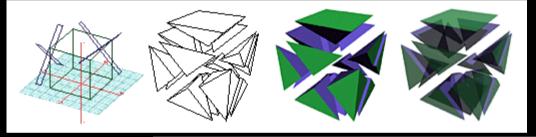


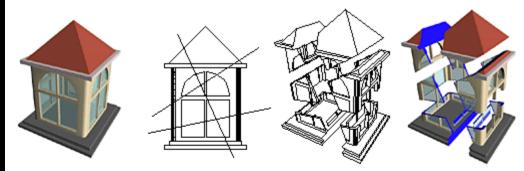


URBAN V Architecture Machine Group



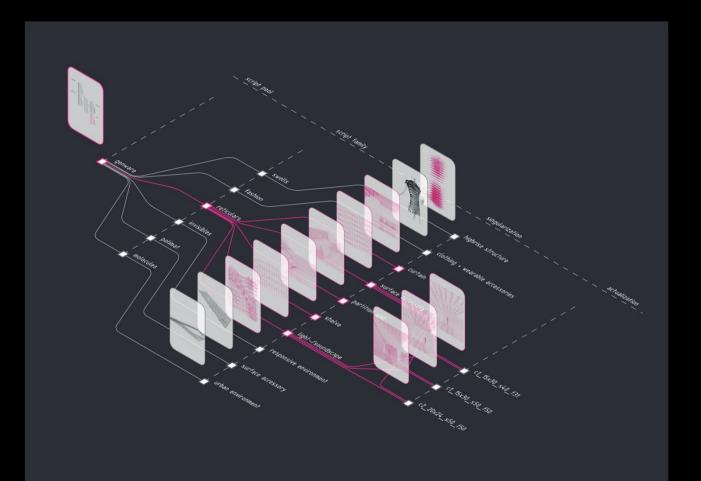






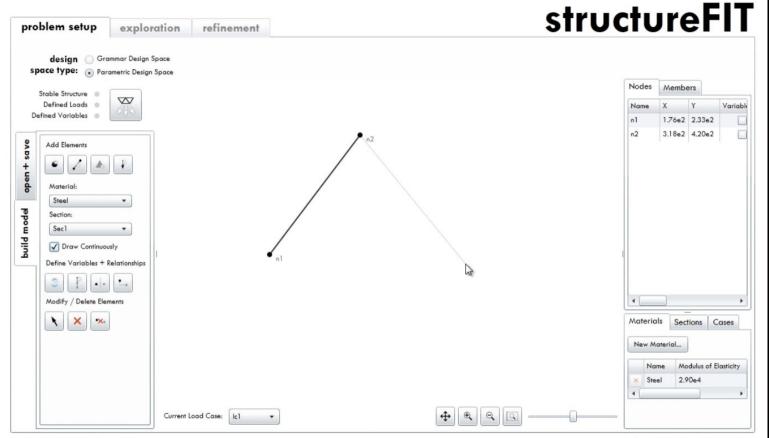
Form\*Z AutoDesSys





Genware biothing





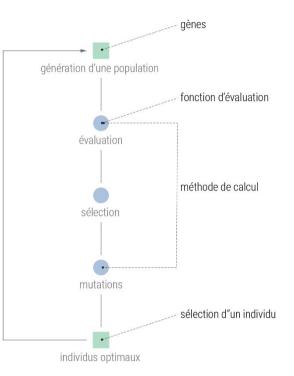
DDU

au fil du temps, un appui sur des typologies

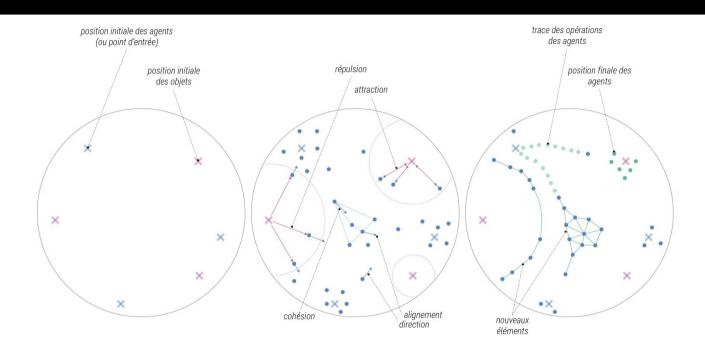
répétées

typologies d'algorithmes: des familles à la structure commune









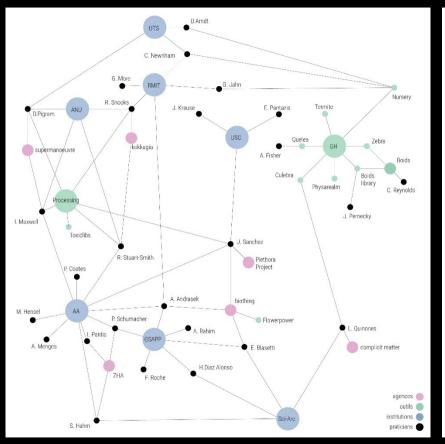
état initial du système opérations exploitation géométrique

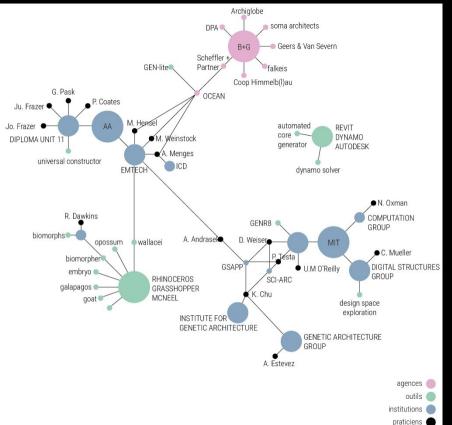


#### PARTIE 3

L'open-source, une pratique en filigrane de la fabrique des outils



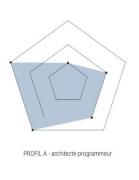






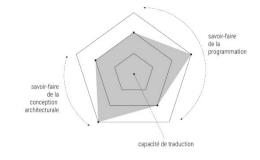
## Dates for the workshop: Monday 9th to Friday 13th of January 2023





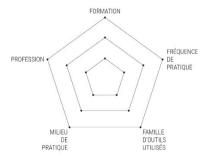


PROFIL B - ingénieur-programmeur



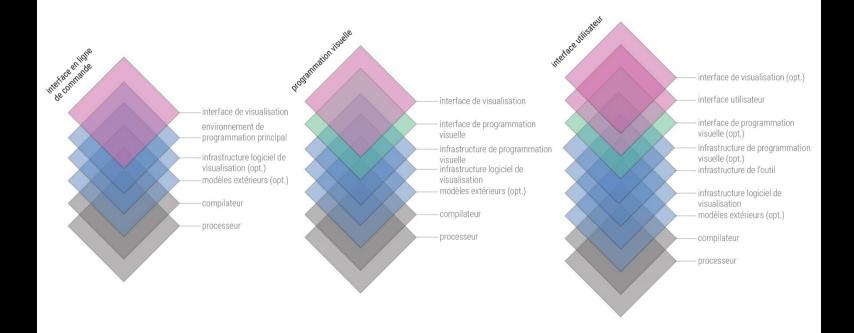






PROFIL C - développeur PROFIL D - architecte

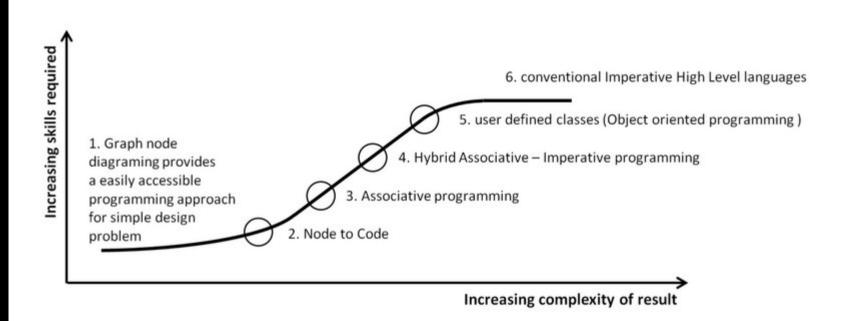








#### Robert Aish et al.





#### **PARTIE 4**

Open-Source et apprentissage, un lien inextricable



"The most important book about technology today, with implications that go far beyond programming."

—Guy Kawasaki

## THE CATHEDRAN & THE BAZAAR

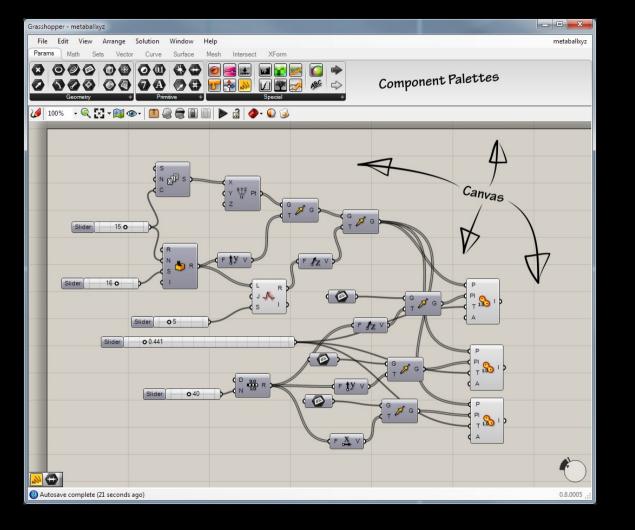
MUSINGS ON LINUX AND OPEN SOURCE by an accidental revolutionary



**ERIC S. RAYMOND** 

WITH A FOREWORD BY BOB YOUNG, CHAIRMAN & CEO OF RED HAT, INC.











facilité d'appropriation ou contrôle approfondi? une négociation au coeur du développement

des outils



#### **PARTIE 5**

Les limites de l'open-source



L'open-source en architecture, à quoi Ça sert ?



apprendre la programmation en même temps qu'apprendre la conception architecturale, un

double défi



des praticiens en manque de reconnaissance et

de débouchés professionnels







des courbes d'apprentissage qui s'aplatissent, des boîtes noires qui prolifèrent, des profils amateurs qui demeurent



une tendance à l'exploitation commerciale

de plus en plus prononcée

## PARTIE 6

L'histoire d'un échec?

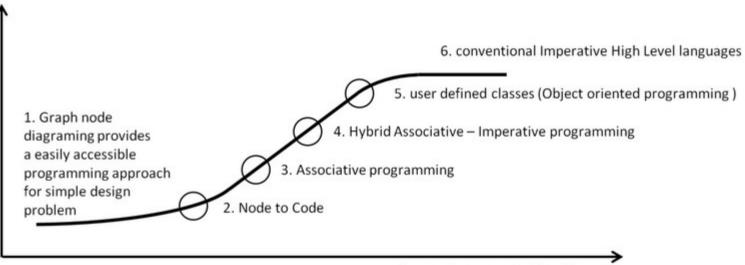


Voir disparaître le bricolage et les pratiques collaboratives qui sont à la base de l'opensource, c'est aussi voir disparaître ce qui fait le sel de la rencontre entre architecture et algorithmes



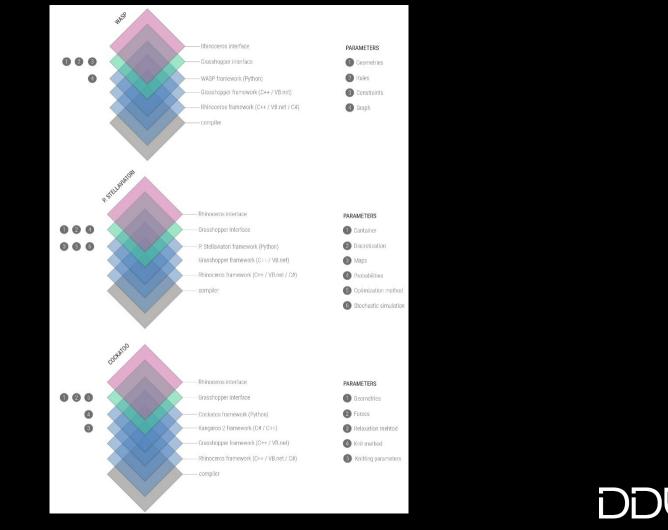












### **MERCI POUR VOTRE ATTENTION**



Digital Design Unit — Digitales Gestalten