

JAVA IN EDUCATION

Sharing Java knowledge in Burkina

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Learning places : University of Bobo Dioulasso Nazi Boni



Nazi Boni (*July 1st 1912 in Bwan, Upper Volta - June 16th 1969*) was a politician from former Upper Volta (now Burkina Faso). He's also considered as the first writer of the country. In 1948 Boni was elected to the **French National Assembly** on behalf of the **Voltaic Union** (UV), and was re-elected in 1951 running on the Economic and Social Action in the Interests of Upper Volta list, although he remained a UV member. In 1955 Boni founded the **African Popular Movement (MPA)** after a split from the UV. In January 1957, Boni's MPA took part in the founding of the African Convention, a pan-African party that later merged into the **African Regroupment Party**. He's author of a famous novel written in 1962 ***Le Crépuscule des temps anciens*** (***The Twilight of the Bygone Days***), which explored the precolonial existence of the Bwa people and the Volta-Bani War

The map illustrates the geographical context of the travel routes from Nasso to Ouagadougou. Key locations marked include Nasso, Bama, Zamo, Fara, and Ouagadougou. The routes are color-coded: a light blue line for the flight and two darker blue lines for the car journeys. Callout boxes provide specific travel details for each mode of transport.

Mode of Transport	Duration	Distance
Flight	50 min	-
Car (via Zamo)	5 h 44 min	372 km
Car (via Fara)	7 h 54 min	501 km



Second university of Burkina Faso located in Nasso (Bobo - Dioulasso) at around 450 km far from the capital Ouagadougou. It comprises instituts, research centers and a higher school of computer science. The number of enrollement is increasing since 1995 and they have more than 3000 in 2019. The official website : <https://www.univ-bobo.gov.bf/accueil>

Learning places : FasoJUG

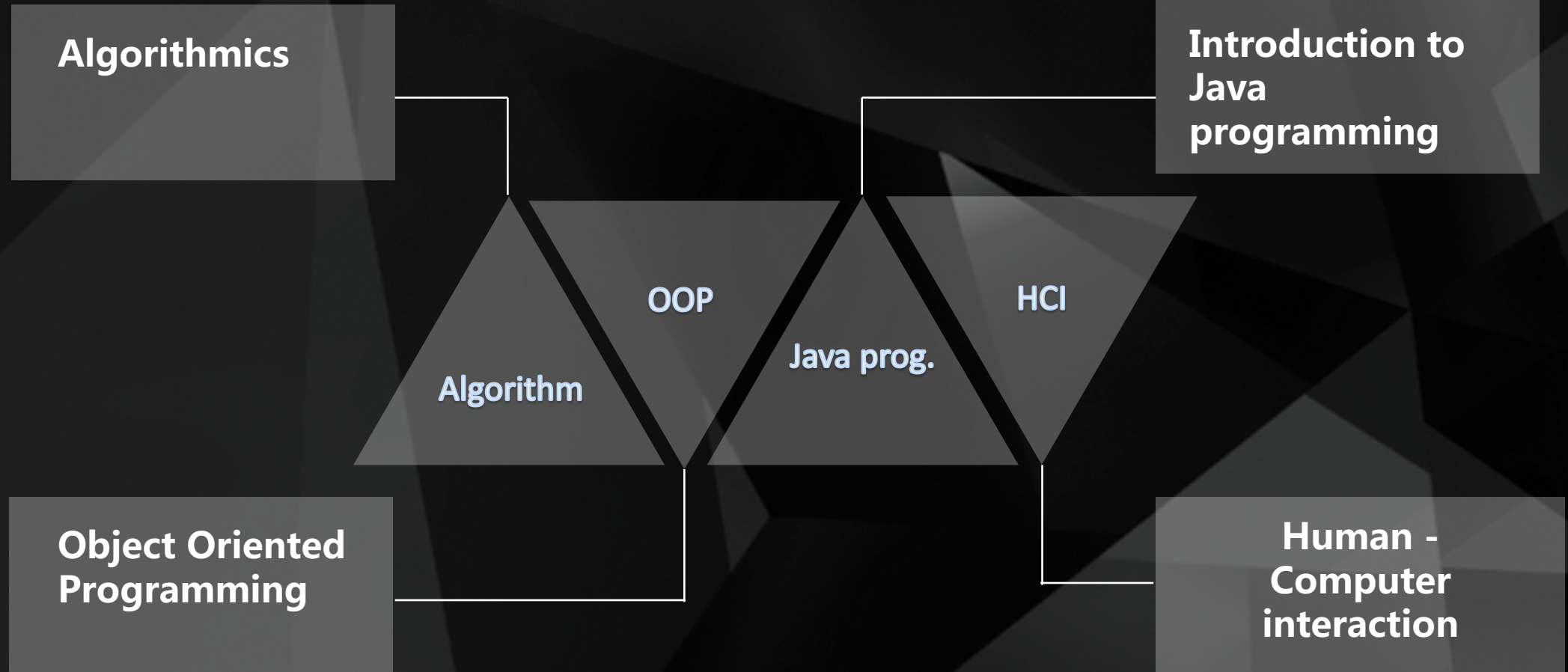


Founded on May 16th 2011 in Ouagadougou

<https://dzone.com/articles/jug-burkina-faso-born>



University syllabus : From algo to HCI with Java



University syllabus : From algo to HCI with Java



Algorithmic

An **algorithm** is a set of unambiguous instructions designed to perform a specific task.

Students learn the basis of writing high-level programming by approaching notions of variable, control structure, data structure, function, etc.

University syllabus : From algo to HCI with Java



OOP

Object Oriented Programming is a programming paradigm based on the concept of "Object" .

Students learn designing a software program by organizing pieces of informations and behaviors.

Additionally, they have understanding of industry-standard **Unified Modeling Language (UML)**. This helps them to prototype with a standard language.

The course is splitted into parts :

- **Theoretical session**
- **Practical session**
- **Evaluations** : on table and a real project to be prototyped

University syllabus : From algo to HCI with Java



Java Programming course

This course session is the place where student learn the core of Java programming. They discover the language syntax, translate algorithm and OOP models in Java. IDE : **NotePad** and **NetBeans IDE**.

The course is splitted in :

- **Theoretical session**
- **Pratical session**
- **Evaluations** : on table and a real project to be implemented

University syllabus : From algo to HCI with Java



HCI

This course session provides to students the basis of implementing user interface taking into account how humans interact with computer.

For this course we use **JavaFX** as library to create application. The IDE used is **Apache NetBeans**.

The course is splitted into parts :

- **Theoretical session**
- **Pratical session**
- **Evaluations** : on table and a real project to be implemented

University syllabus : Extra curricula activities



NetBeans Day

A wonderful event presenting the NetBeans IDE capabilities and present to students how to contribute to opensource project such as NetBeans.

University syllabus : Extra curricula activities

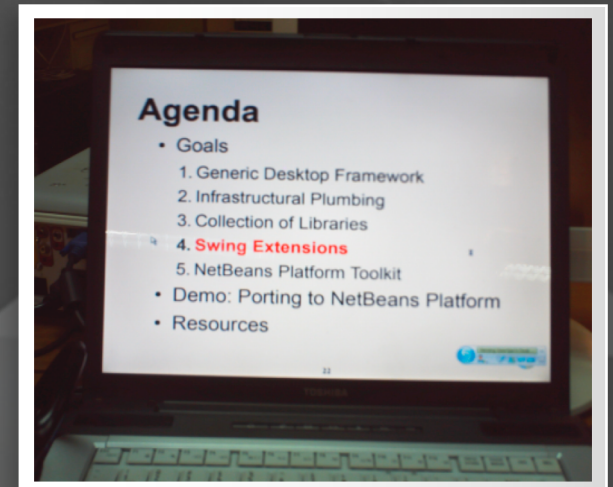


Develop with JavaEE 7 seminar

Learn how to develop a Java web application from scratch using JavaEE 7 platform

NetBeans Platform

Learn how to extend the NetBeans Platform. Remotely with GeertJan Wielenga



FasoJUG : series of sessions on Java



- Java EE 7 Launch Celebration event
- Adopt JSR : contributed to JSON-B (JSR# 367) by standing test event
- The future Java - JCP (Heather Vancura)
- Play Framework (Agnes Crepet)
- UML modelization (Agnes Crepet)
- Spring framework (Sang Shin)
- and many others ...

Perspectives

