De la recherche à la mise en production: MATLAB en intégration continue

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Niland develops powerful music search & recommendation engines

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based on signal processing
Who we are

- A Paris-based startup
- Founded in 2013
- A team of 5 people working towards a better digital music experience
- Winner of the National Innovation Prize (2013)
Meet the Team

Damien Tardieu
Co-founder & CEO

Christophe Charbuillet
Co-founder & CTO

Johan Pages
Co-founder & CMO

Raphaël Estrach
Lead Developer

Aloïs Gruson
R&D Engineer

Denis Charier
Full Stack Developer
Our first market

Find music for:
- Adds
- Movies
- Video games
Watch the tagging and similarity technology in action

some examples
Our **Technology:**

Automatic **indexation of music**

We analyze thousands of data points per song to extract its unique musical DNA.

We map out catalogues thanks to our music similarity rate.

The Most **Powerful & Scalable** Technology

**Machine Listening** of the Market
Algorithms
Search Engine

80 ns / track similarity

100k requests / day

99.997 % availability
MATLAB in Production

MATLAB Compiler Runtime (MCR)
Storage API: Rest Full API

MATLAB workers

Rest Full API

Client web site
Continuous Integration
Step 1 : Idea
Step 2: Prototype
Step 3 : Test the code
Step 4: Compile the build
Step 5 : Deploy on the servers
Le compagnon idéal de MATLAB pour une utilisation en intégration continue.
Conclusion

MATLAB en production : parfaitement stable

Le chemin le plus court entre la recherche et le client
Perspectives

Scaling soundCloud

200M tracks

Paralléler les workers MATLAB sur de grandes infrastructures
Thank You

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