

# KARAJAN / MIT CLASSICAL MUSIC HACKATHON



KARAJAN®  
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**October 21-23 @ MIT Music Library**

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# WHAT IS A CLASSICAL MUSIC HACKATHON?

- Developers, musicians and musicologists get together to create new applications for classical music
- A long weekend of innovation in music technology
- A playful celebration of creativity, technology and music



**CREATIVE USE OF  
TECHNOLOGY**

# WHO WILL PARTICIPATE?

Students from MIT and other universities in Music,  
Computer Sciences and other fields

Music Technology Companies

Professional Software Developers, Musicians,  
Composers and Music Theorists

# TYPES of DEVELOPERS

- **Independent developers.** These developers are not associated with any companies or they are working on a start-up in its earliest stage. Most of these developers will be from the US but some will also come from Europe.
- **Academic developers.** These developers are typically working on Music Information Retrieval and associated fields within the academic system. They develop concepts and basic technologies that will eventually be turned into marketable algorithms and products.
- **Company developers.** These developers are associated with a music technology company. They will be present to facilitate others' hacks using the company's API. They might also develop new ideas for their own company.

# WHAT IS THE PROPOSED FORMAT?

Friday afternoon **music21 workshop**

Saturday morning and early afternoon:

**presentation of company APIs and workshops**

Hacking starts in the afternoon

Sunday morning: **presentation of hacks**

# TOPICS FOR HACKING

... and ambassadors...

Performance Data / Score Alignment

(Vladimir Viro)

Machine Learning for Composition / Analysis

(Chris Thorpe)

Interactive Music Notation / Musicology

(Michael S. Cuthbert and Nicolas Froment)

Virtual Reality, Artificial Intelligence and Meta-Data

(Matthias Röder)

# How is our event **DIFFERENT** from regular Music Hackathons?

1. Focus on the Experience of Classical Music
2. More live performances and music making at hack day
3. More preparation ahead of the meeting to facilitate collaboration (i.e. crowdsource project and product ideas)
4. More follow-up to further develop ideas



# **IDEAS** that will make the **MIT-KARAJAN** Classical Music Hack Day special

**Strong involvement of academic and scientific  
community**

**(Pre)-Engagement** of young artists to produce  
content and data

# PROVIDED DATA SOURCES and INFRASTRUCTURE

- Hacking space in the MIT Music Library
- Selected Karajan meta-data with all concert-, recording-, and geo-data, artists, composers, works
- Selection of multitrack recordings by Karajan with musicXML scores
- Herbert-von-Karajan-Data-Set (HvKDS) for over 700 Karajan recordings (performance-related data like micro-timings and links to selected scores)

# MEDIA AND PR

PR through Karajan Institute

Website [www.classicalmusichackday.org](http://www.classicalmusichackday.org)

Twitter [@ClassicHackDay](https://twitter.com/ClassicHackDay)

**#ClassicalHackDay**

# PROJECTED ATTENDANCE

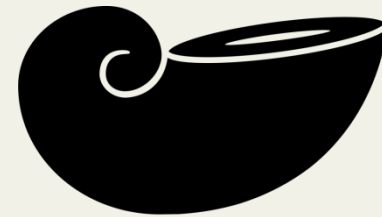
ca. 100 hackers

ca. 15-30 company reps

ca. 5-10 media reps

# PARTICIPATING GROUPS, and COMPANIES

musescore



**GRAMMOFY**



DearReality

meta  
l@b(at)  
harvard

 Peachnote

# What is the **ADDED** **VALUE?**

Perfect environment to promote own technologies to music technology companies and thus **stimulate development of new applications**

Unique opportunity to associate your group with one of the world's **most successful music brands and technology universities**

Chance to **network** with potential business partners from the **music technology industry**

Possibility to participate in showcases at **media industry events** such as MIDEM, The Arts+, ClassicalNext etc.

# Partners



For sponsorship opportunities contact:  
Matthias Röder at [matthias.roeder@karajan.org](mailto:matthias.roeder@karajan.org)  
Michael S. Cuthbert at [cuthbert@mit.edu](mailto:cuthbert@mit.edu)