

AMiDST TOOLBOX

A Java Toolbox for Scalable Probabilistic Machine Learning

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- Check your java version:

```
$ java -version
```

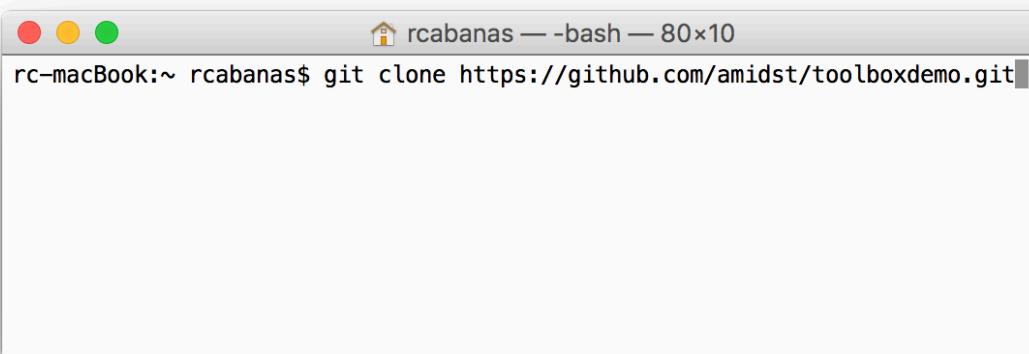
- <http://www.oracle.com/technetwork/java/javase/downloads/>



IntelliJ IDEA

- <https://www.jetbrains.com/idea/>

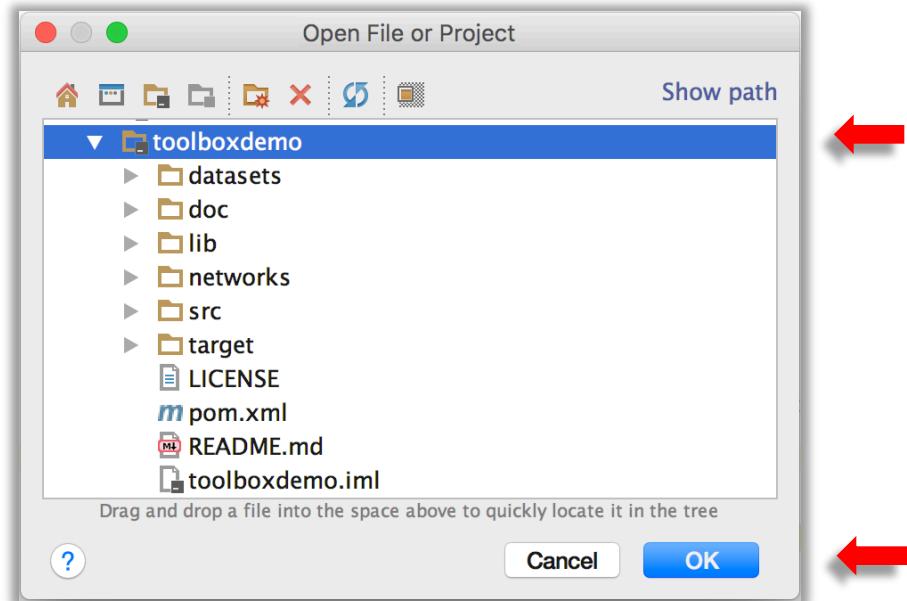
- Step 1: Download the material
 - Option A:



```
rc-macBook:~ rcabanas$ git clone https://github.com/amidst/toolboxdemo.git
```

- Option B: visit <https://github.com/amidst/toolboxdemo> and click on 

- Step 2: Open the downloaded project with IntelliJ:



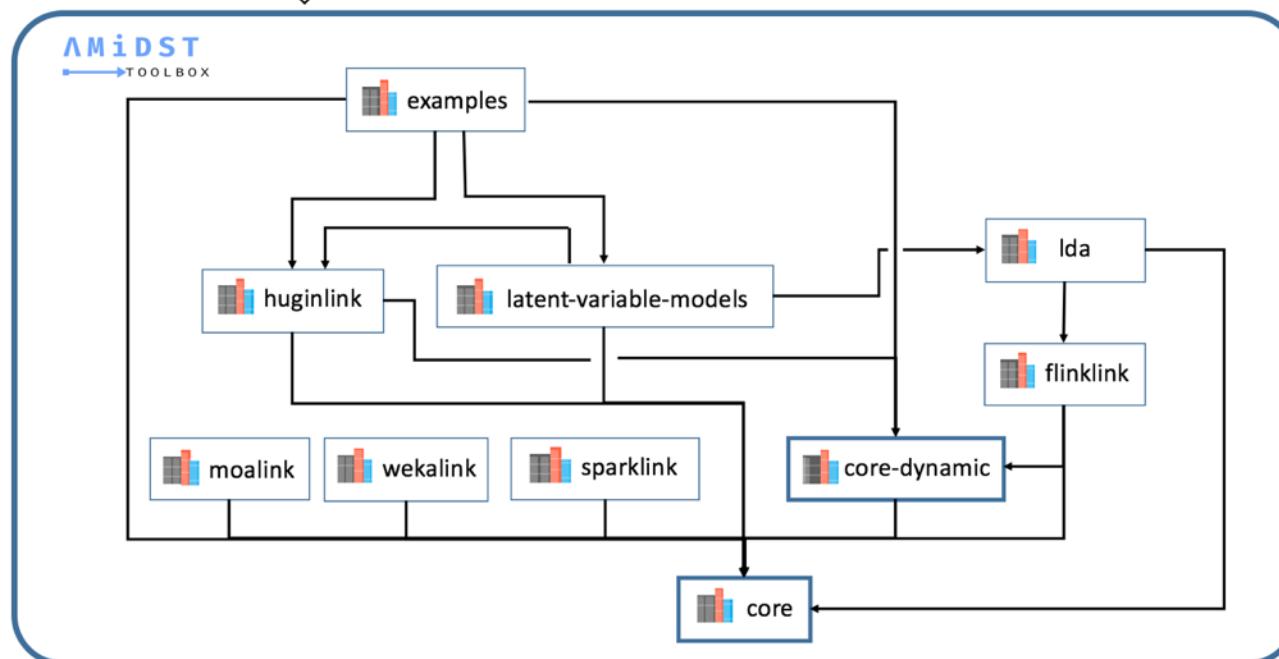
OVERVIEW

AMIDST
TOOLBOX

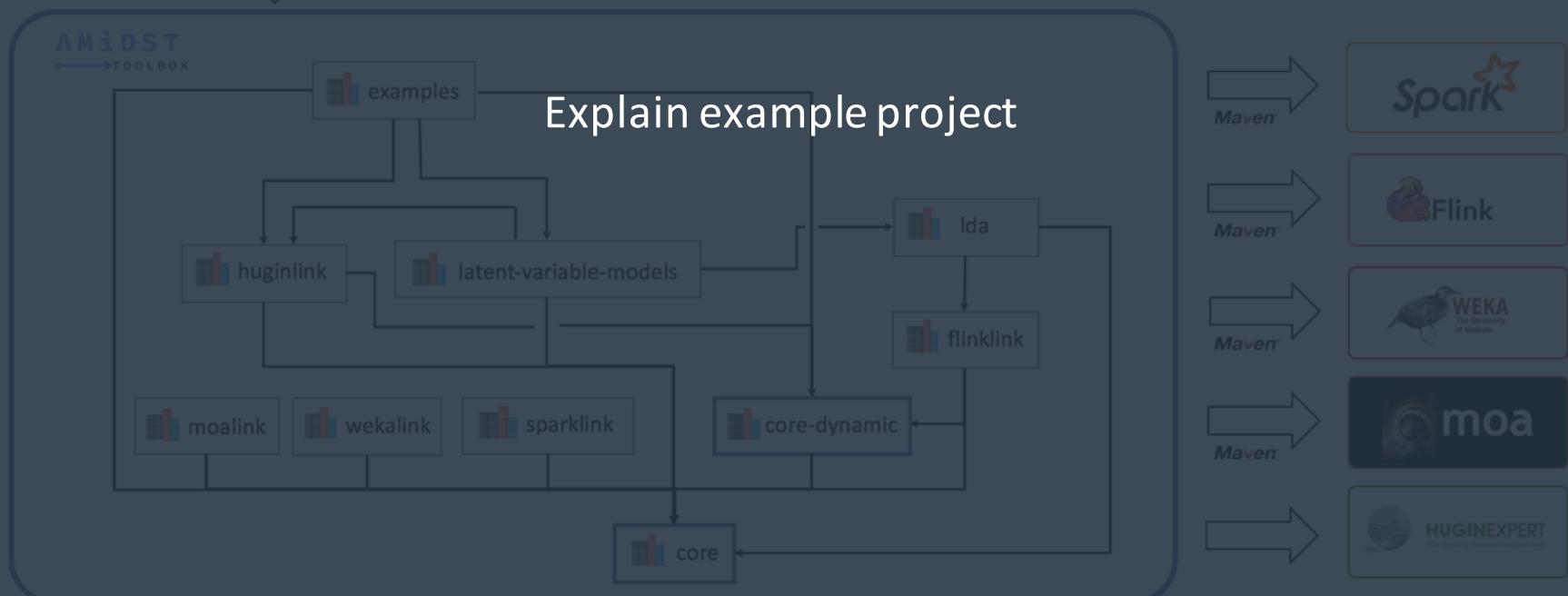
Maven project



Maven



Maven project

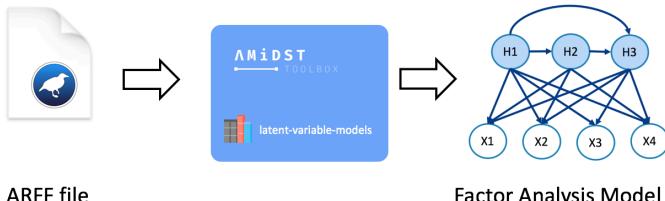


- Wide range of predefined models with **latent variables**
- Available in module  latent-variable-models

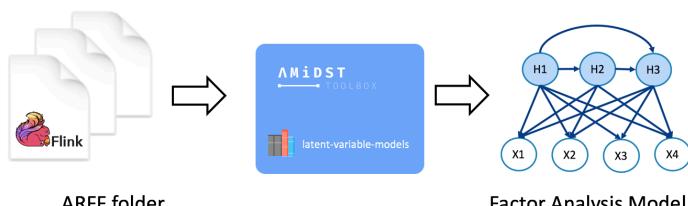
Static	Dynamic
<ul style="list-style-type: none">Naïve Bayes (NB)(G)AODE/HODEGaussian Discriminant AnalysisGaussian MixtureMultivariate Gaussian Distribution <ul style="list-style-type: none">Latent Classification Models (LCM)Bayesian Linear RegressionFactor Analysis (FA)Mixture of FA	<ul style="list-style-type: none">Dynamic NBDynamic LCMHidden Markov Model (HMM)(Switching) Linear Dynamical Systems <ul style="list-style-type: none">Factorial HMMAuto-regressive HMMInput-Output HMM

Learning

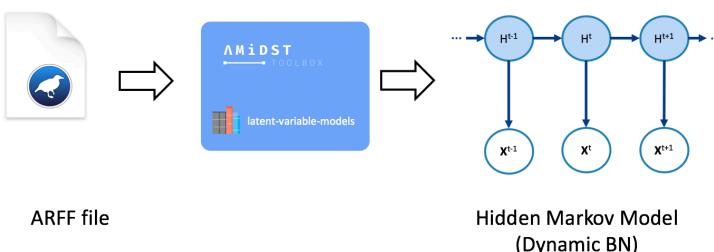
A)



B)

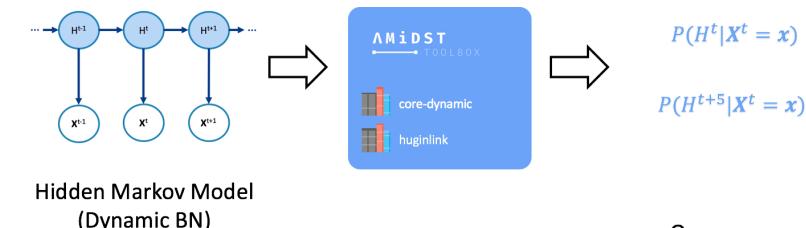


C)

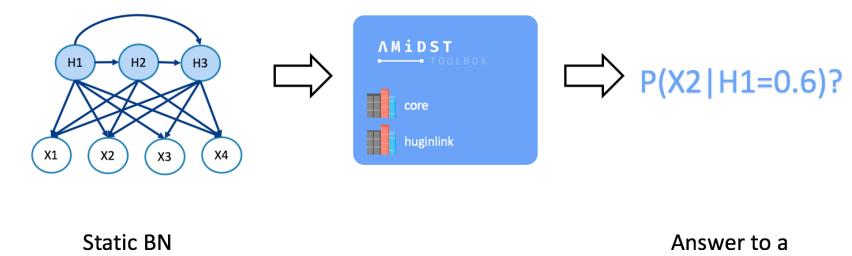


Inference

D)



E)



Learning

A)



B)



C)



Inference

D)

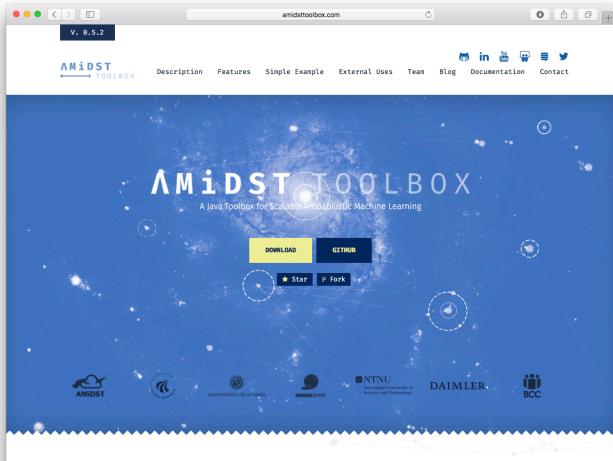


E)

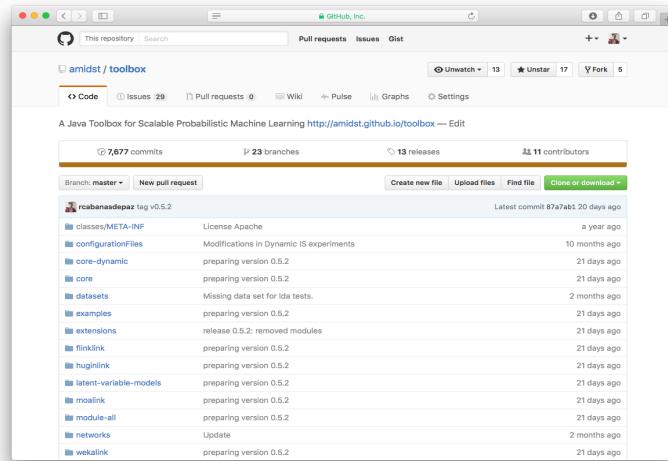


COLLABORATE

AMIDST
TOOLBOX



www.amidsttoolbox.com



github.com/amidst/toolbox



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Thanks for your attention

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