GNY API Beta

Welcome to the next step in machine learning

This user guide will guide you through the steps to:

- Set up your GNY API's using Oraclize
- Organize your historical data and upload it to GNY (optional)
- Direct your recommendations and set up GNY to learn from its recommendations' outcomes

GNY API Beta is optimized for recommendations for retail (suggested next purchase) or publishing (suggested next article recommendation).

Our next technical development GNY CENTRE (launching Q2 2019) will be customizable to any application, but this GNY API interface will remain available to users who prefer to test and engage with the API.

Upon receipt of your GNY API User Guide email you will have access to our **predictive platform for 1 month (30 days) for 1000 recommendations a day**.

Users will be responsible for paying for their own GAS in Oraclize, so we recommend using GWEI settings of "2".

Finally, GNY API Beta is in-development, so by using it you automatically comply with our disclaimer, and where possible **PLEASE provide feedback**.

If you need support at anytime in this process or want to provide feedback please **reach out for support at info@gny.io** or on our **Telegram**.

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Step 1

If you Have Historical Data, Then Upload Using Our SFTP or URL.

Upload via secure data loading:
sftp giouser@52.34.134.227
Password: giopass222

Upload via URL:
Genie is a Deep Learning Neural Net, therefore the more data you give it the more accurate its predictions will be. If you have historical data, simply format the data in columns of consumer id, date and product name.

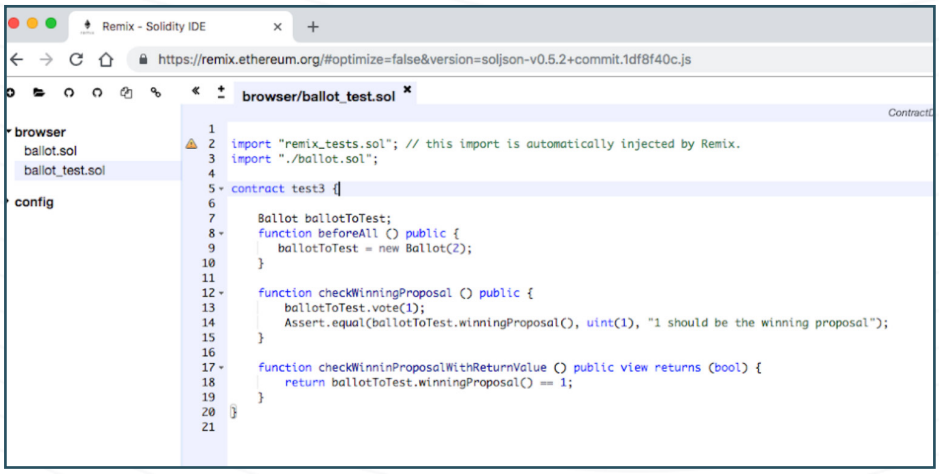
Load the data here:
http://52.34.134.227/uploadFileHistoricalData.php

Step 2

To Test Genie with Free 100 Ether Gas first set free Solidity Ethereum Test Environment in Remix click URL:
http://remix.ethereum.org./

Click on Testing tab:

> Click on Generate Test File Button
> Click on Run Tests Button
> The Solidity Ethereum Test File ballot_test.sol is created



If you get stuck, reach out to us:

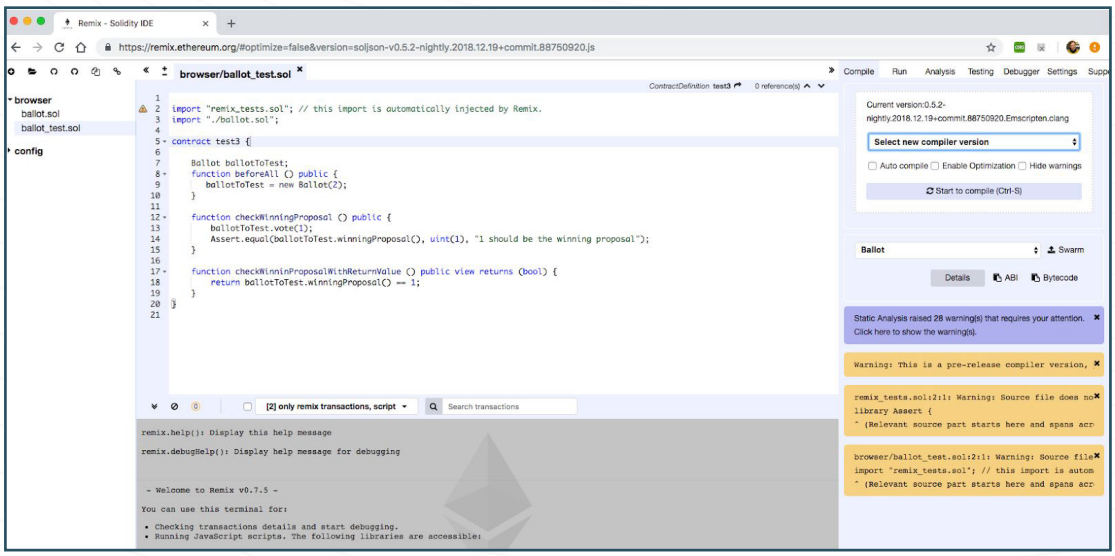
info@gny.io or **telegram**

Step 2.1

And Then Compile to get free GAS:

Click on Compile tab:

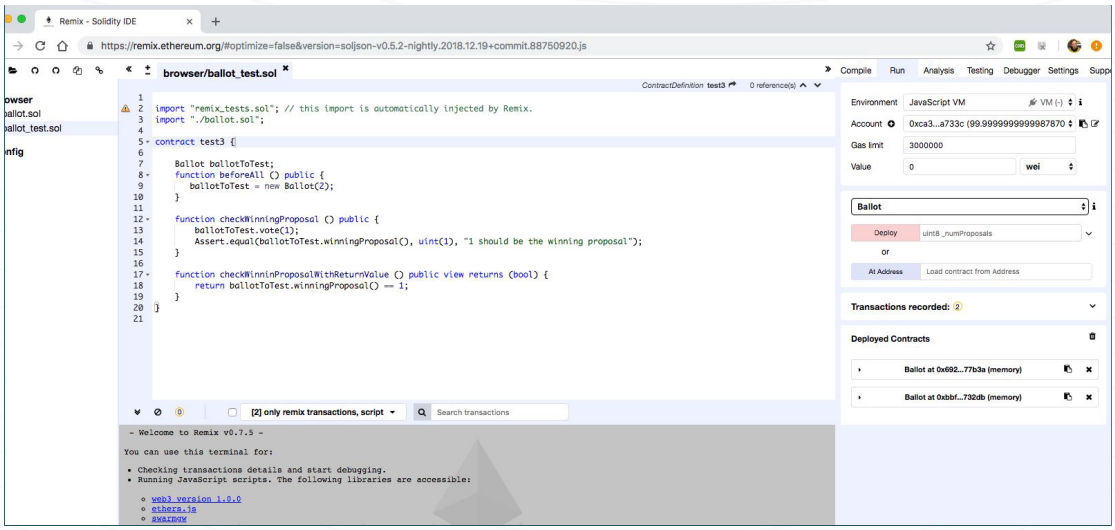
> Select newest compiler version
> Click on Deploy Button
> You now have 100 ether free in your account



Step 2.2

Run the test to get free GA:.

Click on Run tab:



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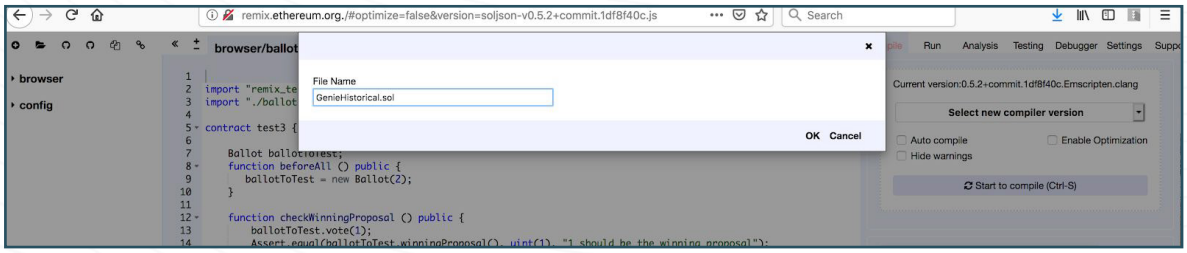
Step 3

Run genie example with data:

Click on create button on upper left side of http://remix.ethereum.org./ dashboard



Cut and paste this code :

```
pragma solidity >=0.4.22;
import "github.com/oraclize/ethereum-api/oraclizeAPI.sol";

contract MyGenieContract is usingOraclize {
   string public recommendation;

   event NewOraclizeQuery(string mycid);
   event NewGenieMachineLearningResponse(string recommendation);

   // called by GENIE USER FROM ETHEREUM BLOCKCHAIN
   function update() public payable {

   emit NewOraclizeQuery("Start Genie waiting for response ... ");
         // data source URL API call
   oraclize_query(60, "URL", "http://52.34.134.227/getRecommended-
Product.php?key=jtwD3RMlgA&consumer_id=13", 500000);
   }

   function afterAll () public {
         oraclize_query(60, "URL", "http://52.34.134.227/sendActualProd-
uct.php?key=jtwD3RMlgA&cid=consumer_id=13&product_name=cherry",
500000);
   }
```

Step 4

Run genie example without data:

To use Genie without historical data you use the same API calls for example this Genie account with API key=xgr=67d&gP has NOT been loaded with historical data and will bootstrap itself from the real time data sent in the API call:

http://52.34.134.227/sendActualProduct.php?key=xgr=67d&g-P&cid=consumer_id=13&product_name=cherry

To use Genie without historical data cut and paste this example:

```
pragma solidity >=0.4.22;
import "github.com/oraclize/ethereum-api/oraclizeAPI.sol";

contract MyGenieContract is usingOraclize {
    string public recommendation;

    event NewOraclizeQuery(string mycid);
    event NewGenieMachineLearningResponse(string recommendation);


    // called by GENIE USER FROM ETHEREUM BLOCKCHAIN
    function update() public payable {

    emit NewOraclizeQuery("Start Genie waiting for response ... ");
        // data source URL API call
    oraclize_query(60, "URL", "http://52.34.134.227/getRecommended-
Product.php?key=xgr=67d&gP&consumer_id=13", 500000);
    }

    function afterAll () public {
        oraclize_query(60, "URL", "http://52.34.134.227/sendActualProd-
uct.php?key=xgr=67d&gP&cid=consumer_id=13&product_name=cherry",
500000);
    }
```

Step 5

Step 5 – Set up your API Key for your own example:

·After your get your own Genie API Key:

```
pragma solidity >=0.4.22;
import "github.com/oraclize/ethereum-api/oraclizeAPI.sol";

contract MyGenieContract is usingOraclize {
    string public recommendation;

    event NewOraclizeQuery(string mycid);
    event NewGenieMachineLearningResponse(string recommenda-
tion);


    // called by GENIE USER FROM ETHEREUM BLOCKCHAIN
    function update() public payable {

    emit NewOraclizeQuery("Start Genie waiting for response ... ");
        // data source URL API call
    oraclize_query(60, "URL", "http://52.34.134.227/getRecommend-
edProduct.php?key=YOURKEY&consumer_id=13", 500000);
    }

    function afterAll() public {
        oraclize_query(60, "URL", "http://52.34.134.227/sendActual-
Product.php?key=YOURKEY&cid=-
consumer_id=13&product_name=cherry", 500000);
    }


}
```