Writing Smart Contracts
02 Tool Setup

Peter H. Gruber
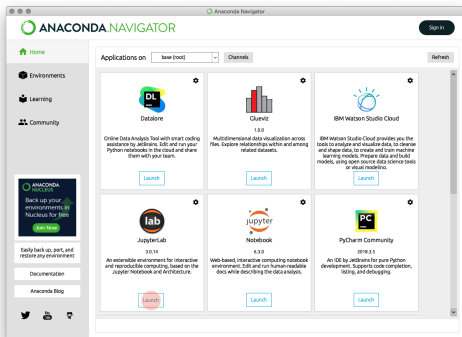
Supported by the Algorand Foundation

Anaconda
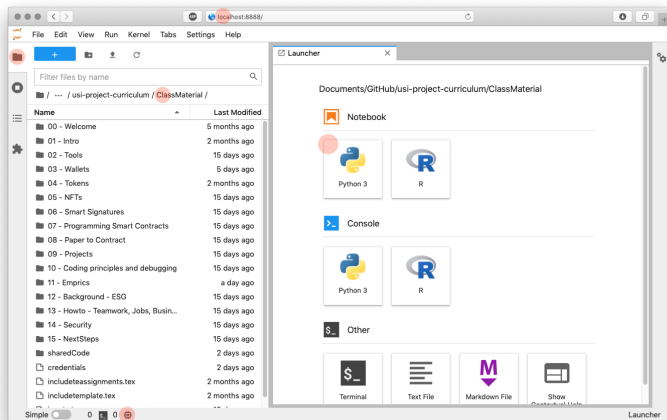
(1) Get Anaconda

– https://www.anaconda.com/products/individual
– No need to register or create an account
– Download and install Anaconda "Individual Edition"

(2) Anaconda Navigator

A quick intro to Jupyterlab

- Jupyter = Julia/Python/R
- Notebook (text+code+results)
- Markdown language
  → `02_WSC_JupyterLab.ipynb`

- Access with browser
- Files in current directory
- Directly run Python
  → `02_WSC_Python.ipynb`
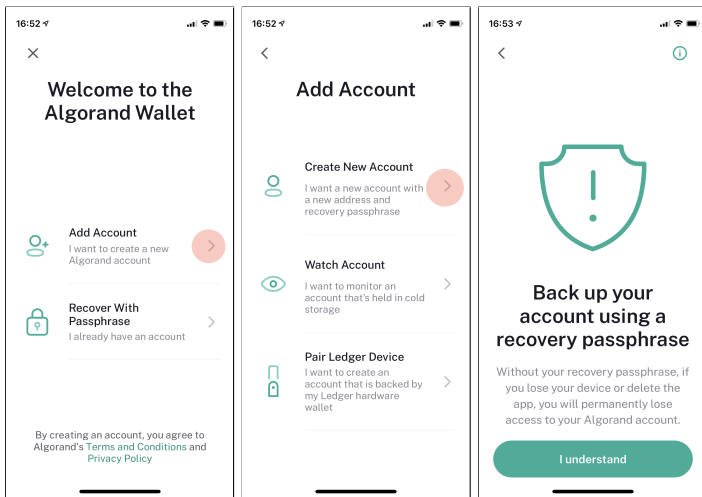
Algorand Wallet App – Install

iOS

Android

https://apps.apple.com/at/app/algorand-wallet/id1459898525?l=en
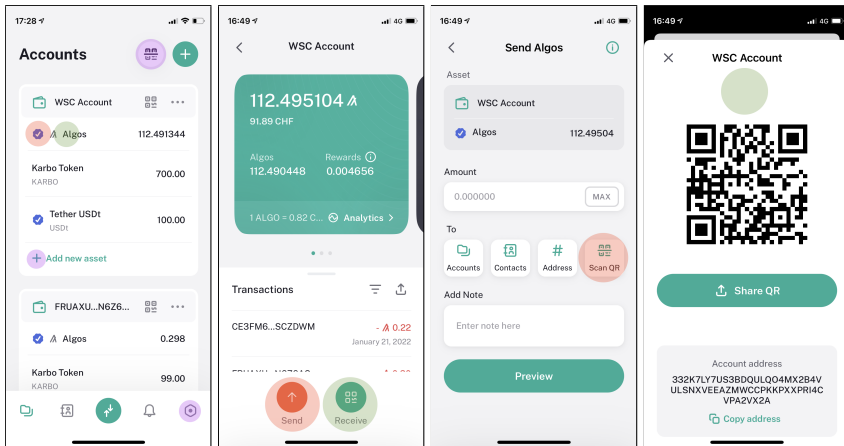https://play.google.com/store/apps/details?id=com.algorand.android&hl=en&gl=US

Algorand Wallet App – Create an account
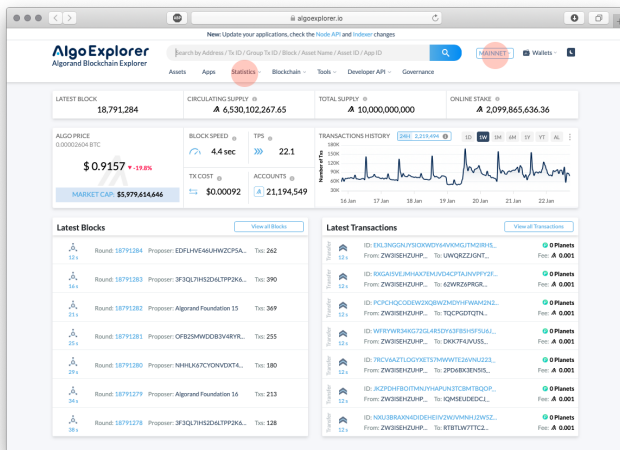

Create an account, store the passphrase

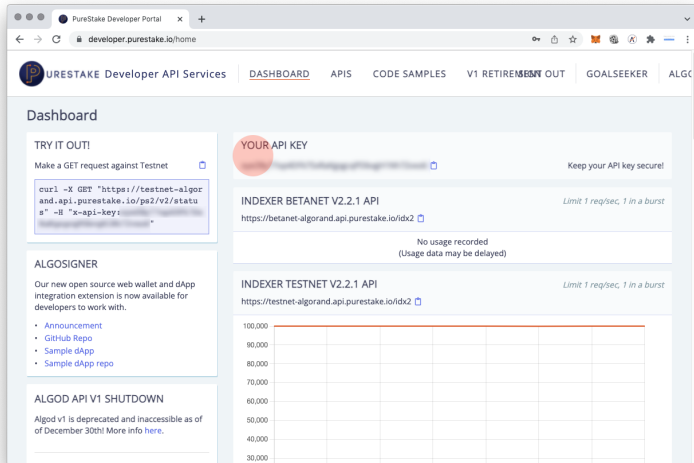# Algorand Wallet App – Make a transfer

RED = send, GREEN = receive

Testnet: ⊙ Hexagon / { } Developer Settings / Node Settings / TestNet (orange bar)

A quick view of the Algorand Blockchain

`https://algoexplorer.io/`
– Explore statistics
– Search for your wallet address (how?)
– Search for "USI" on the testnet

Purestake API

`https://developer.purestake.io/` > Register for free > Login

Tools overview

Locally installed

- Anaconda
    - JupyterLab (access via browser)
    - Python + Algorand SDK Library + PyTEAL
- Algorand Wallet App for iOS/Android
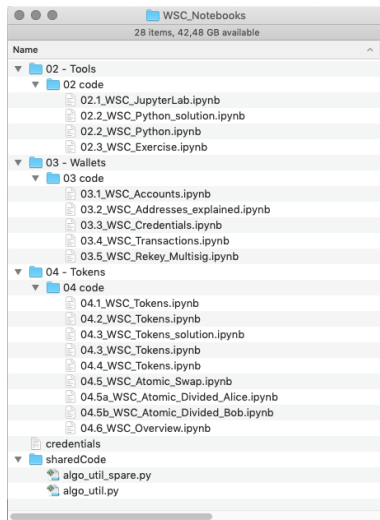
API-Access

- Read blockchain data via Purestake API
- Submit transactions via Purestake API

Web-Access

- Algo Explorer

Folder structure notebooks

Do not change this structure! Add new folders in correct level.