



```

      aaa          ccccccc      mmmmm  mmmmm
        a  a          cc      cc      mm mm  mm mm
          aa  aa          cc      c      mm mm mm mm
            aaaaaaaaaa      cc          mm  mmm  mm
              aa  aa          cc      c      mm  m  mm
                aa  aa          cc      cc      mm          mm
                  aa  aa          ccccccc      mm          mm

```

**MEETING NOTICE**

*Free and open to the public*



**Topic: Two Easy Theorems From Financial Folklore**

**Speaker: Bob Cotton**

**When: Monday, April 19<sup>th</sup>, 2021, 7:30 pm**

**Where: In Cyberspace**

**Directions:** To obtain the URL for this video conference, you *must* register to attend through [Meetup.com/ACM-Poughkeepsie](https://www.meetup.com/ACM-Poughkeepsie). Once you've done so, your Zoom link will appear on Meetup's page for this event.

**About the Topic:** Every investor knows that portfolio balancing is beneficial, but why exactly? We state and prove a theorem and discuss related calculations. The key idea is the weighted geometric mean.

If a currency exchange deals in many currencies, how may a single list of relative values be found? We exhibit a method and its theory using M-matrices.

These two theorems suggest two different ways to establish currencies. We will compare various properties of these and other currencies.

**About the Speaker:** Bob Cotton is currently Program Chair of the Poughkeepsie Chapter of the ACM, and an organizer of the Hudson Valley Programmers meetup. He first learned programming at IBM Kingston in 1959. After teaching college mathematics for twelve years, he worked with Burroughs/Unisys large systems for 30 years, most recently at the Clearing House in New York, where financial questions mattered. Bob's interests include two long-standing projects in music and voting theory. He still trots for exercise.

**Cost:** Our meeting is **Free** and **open to the public**

**Dinner:** Because our meeting is virtual, we will not hold our normal dinner beforehand at the Palace Diner.

**We thank Marist College for providing web conferencing service.**

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This page is available on the web at <https://pok.acm.org>.

