

1086-VD-2821 **Alexi Hoefft*** (hoeffta@vcu.edu), Richmond, VA. *What would a map of mathematics look like?*

We exhibit a dynamic visual-spatial representation of mathematics as a city, with related areas of study shown as boroughs connected via the corresponding ground-breaking papers or theorems. Different layers of the map appeal to different demographics including mathematicians, students, and members of the general public. The goal of the map varies with the user. For mathematicians, we aim to make the connections amongst the areas of math easier to visualize and consequently encourage interdisciplinary research and communication. For student users, we aim to inspire and motivate the topics they see in the classroom by showing how they fit into the global picture of mathematics. And for the general public, the goal is to heighten awareness of what mathematics is by making it easier to learn about the mindset, structure, and overarching goals of mathematics, as well as the development of the main tools of the trade. (Received September 25, 2012)