

PROFESSIONAL DEVELOPMENT

1) Think about how to get new teachers up to speed (all types of teachers in different levels and subjects)

2) What are the support structures that need to be in place for teachers to access?

3) What would in-person PD look like. What would distance learning PD look like?

- blended as well?

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What teachers need:

- how do we get new teachers involved given that they're already overtaxed?
- one of best ways to learn is in an intense face-to-face session
- One thing to be created is a well-developed (week-long, day-long, etc.) experience
- vision - don't need to know everything to start, provide useful support community
- what comes after professional development? - how do teachers stay connected afterward?
- simple interface for community
- provide good way to share "objects" (what are the objects) - perhaps the thing that teachers can come together around is curriculum
- use energy & enthusiasm of people at this summit and people like them - how - make stories, testimonials, case studies.
- identify members by various attributes - location, type of teaching, etc. Also roles that members could assume in the process of PD: learner, tutor, mentor, contributor, leader, etc.
- comparison to open source community - active users - "developers" - continue to use & improve on it
- meta-data for curriculum - last release/update
- educator's conference or other events where educators come already
- what is the training like? -
- certification - "train the trainers" - levels of certification
 - pay scale - PDP's and/or graduate credit
 - recognition - official MIT App Inventor educator
- partner with CSTA (or NSF)
- self-directed, unpaced online course/learning opportunity
- actual online course - with cadre & "semi-synchronous"
- credit for helping someone else; consider survey/rating for the "helpee" to give points to the helper
- different levels of certification require more "points" helping others
- gallery of courses/lessons/curriculum - metadata for that
- consider google drive-like sharing of resources
- how do we connect to the world of teachers who need to understand mobile technology (right now, no idea that students should be programming apps) - connect with ISTE mobile SIG

Vision for App inventor (PD) workshop:

1. give basic instruction on how to use App Inventor to initial level
2. Give intro to how to learn more about it (show them where the community is, give brief on how to participate in it)
3. Give charge to learn something and bring it back to the class (and the community)

- Teaching people how to learn about it, and how to be comfortable learning about it with students, i.e. being a co-learning facilitator

Sources for PD for teachers:

1. Face-to-face

- scheduled
- where do these occur?
 - conferences (e.g. CSTA workshop, ISTE workshop, etc)
 - MIT
 - schools
- educate-the-educators

1.5 Blended

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2. Online

- (M)OOC
- discrete vs. open courses

3. Community - MIT CML

- Build Infrastructure
 - others contribute to design/review
 - MIT constructs
- Strategies to Grow Community of
 - instructors of MITAI
 - those leading PD
- Create online community that would support newcomers & existing members
- Share resources
- provide coaching/mentoring/individual contact
- structure & organize community
 - different “levels” of membership?
- User groups
- hack-a-thons/app-jams
- look at models for creating the community
 - Greenroom (online community for Greenfoot - learning Java)
- What is the hook - something interesting for them to get access to?
 - MITAI curriculum resources - featured/sticky
 - from full syllabus to lesson
 - not just CS courses - how it can be used in science, math, history, etc.
 - PD Resources
 - videos
 - interviews of teachers who've taught using it
 - interviews with kids who've learned with it
 - case studies - short article on X
 - info on how to bring materials to your school/district/organization
 - flyer
- forums, with sticky posts (including which devices to use, versions of software)
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Outstanding Questions:

- who is our audience
 - pre-service and/or in-service teachers?
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- what organizations/people should we be partnering with to create these offerings?
 - Technology in Education grad programs - the faculty?
- CS10K -
- How do we get App Inventor to be part of CS teacher education
- Identify influential institutions to talk to -
 - ISTE
 - CSTA
 - NSF Cyberlearning (and other CSE) grant recipients
 - Where are places going 1-to-1? (or BYOD?) - e.g. Maine
 - DOE Race-to-top & other program recipients(?)
 - Joan Ganz Cooney Center - have published on mobile
 - Gates, MacArthur, other foundations (Wallace), Corporate (telecoms, device manufacturers)
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