

CREATORS OF CODE... ...WHY NOT KIDS?

LEARNING HIGH-TECH SKILLS IN THE SLOWER LOWER

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AGENDA

- Coding skills: Why they matter
- TEDx Talk: Thomas Suarez, A 12-year-old App Developer
- Coding programs for Cape Henlopen Teachers and Students
- Coding resources outside of school

ABOUT US



- **Nevie Hagen**

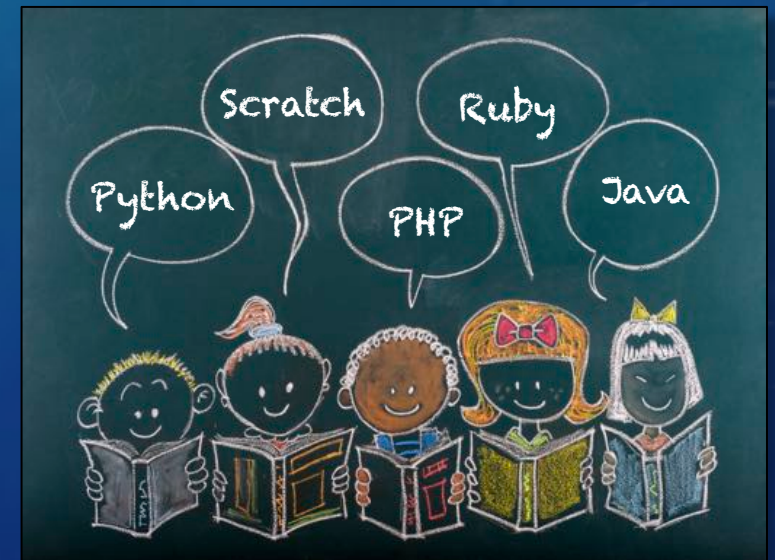
- 5th grader at Shields Elementary, Cape Accelerated Program (CAP)
- Odyssey of the Mind
- Girls on the Run
- Love coding, cooking, and crafts
- Avid reader – Harry Potter, Narnia, Raina Telgemeier, many more!
- Lewes Technology Consulting employee #3

- **Phil Hagen**

- ~20yrs in information security and computer forensics
- Write/teach graduate-level Network Forensics class for the SANS Institute
- Red Canary threat detection startup
- Pre- and post-incident consulting
- Former US Air Force Comm Officer
- USAFA 1998, CompSci/InfoSec

CODING SKILLS: WHY THEY MATTER

- Many coding jobs are becoming mainstream
 - “Coding” is a subset of “software development” just as framing, plumbing, and electrical work are subsets of “building construction”
- Coding is basically a “second language” used in many jobs
- It’s a skill that needs continuous attention to grow and improve
 - Learning the basics early (kids!) is a great way to start



THOMAS SUAREZ, A 12-YEAR-OLD APP DEVELOPER

- TEDxManhattanBeach, October 2011
- Over 5 million views!
- <http://bit.ly/12yo-app-dev>



CODING PROGRAMS FOR CAPE HENLOPEN TEACHERS AND STUDENTS

- Cape Schools have **lots** of resources for computer lab and classrooms!
- <http://code.org> – Learn coding skills in modules that kids like
 - Minecraft, **STAR WARS**, Artist, and LOTS more
- Hopscotch – Create your own games and share them to the world
 - Includes video instructions, many example games
- Welcome to the Web (<http://w2tw.uk>) – Computer safety and security
 - Pretend to help police track and catch a “bad guy” computer hacker



INTERESTED? LOTS OF LEARNING OPPORTUNITIES!

- Kodable – App that teaches basic coding concepts in graphical form
- Hopscotch and code.org – Available for anyone even outside class!
- Python for Kids – Learn to use the Python programming language from small steps to giant leaps
- Delaware Library events – teach Scratch language, more
 - Needs local demand to bring programs to Sussex County
 - <http://bit.ly/de-library-coding>



CONCLUSION

- Coding skills are an important “second language” for many jobs
 - Learning early will improve all of our future contributions!
- Cape Henlopen School District has lots of educational programs for kids (and teachers/parents)
- Most CHSD programs and many more are available to anyone via the Internet



QUESTIONS?

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Slides: <http://bit.ly/creatorsofcode>