Algorithmic Adventures and More

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Three Contributions to Share

1. Slides for the book *Algorithmic Adventures*

2. Programming education support system peach

3. Tom’s JavaScript Machine
I taught a class from the wonderful book (and an ISSEP 2010 present):

*Algorithmic Adventures*
by Juraj Hromkovič
Springer Verlag, 2009
www.springerlink.com

Slides for download at:
www.win.tue.nl/~wstomv/edu/hci
peach\textsuperscript{3}

- Open-source web-based client-server system: peach3.nl
- Various user categories: student, grader, teacher, admin, observer
- Collect, store, evaluate submitted work, feedback, and results
- Enforce deadlines, fraud detection
- Supports multiple courses, with groups, over multiple years
- Evaluation configurable per assignment
- Supports multiple (programming) languages

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What peach$^3$ Is (Not)

peach$^3$ is not intended as a full-blown generic

- student administration system
- course management system (cf. Moodle.org)
- web content management system (WCMS)
- workflow management system
- program development environment (IDE)
- version management system (cf. Subversion)

... but it has a bit of everything
Low-threshold Facility for Introduction to Programming

- Tom's JavaScript Machine:
  
  www.win.tue.nl/~wstomv/edu/javascript

- Zero install: runs in any (modern) browser

- Easy to make teaching material with embedded programs/output

- Adaptable: turtle graphics, event-driven GUI, web apps (DOM)

- Includes a nice challenge with 40+ hints
Links

www.win.tue.nl/~wstomv

www.win.tue.nl/~wstomv/edu/hci (look under Downloads)

peach3.nl
demo.peach3.nl

www.win.tue.nl/~wstomv/edu/javascript