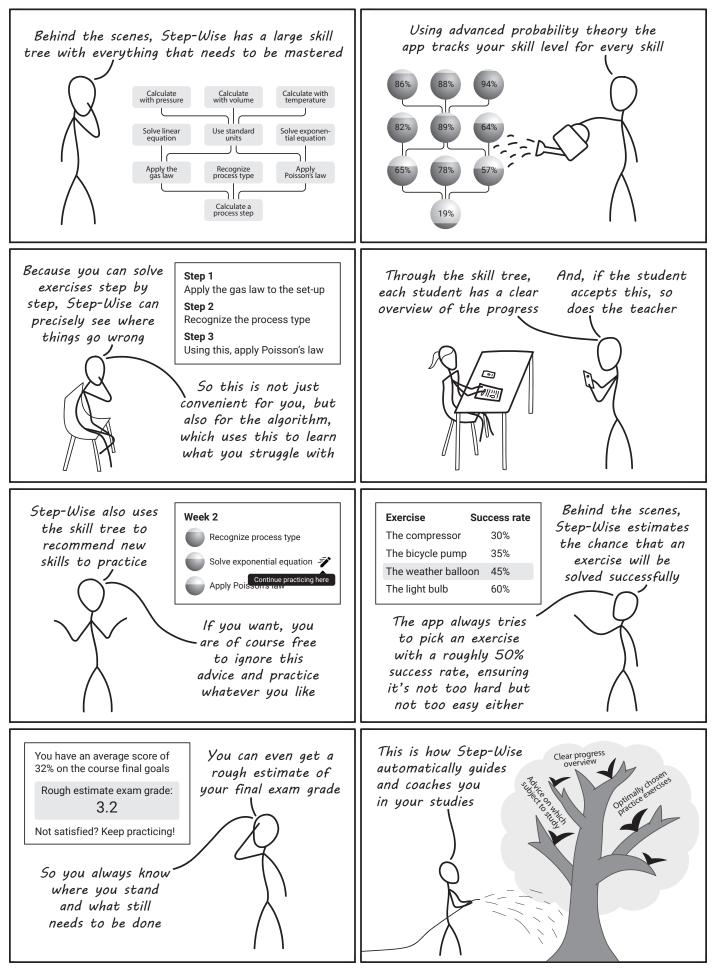
Step-Wise: an interactive practice platform

Step-Wise is an We will calculate Due to modern interactive practice the pressure design principles, inside a large platform Step-Wise is very helium-filled weather balloon. user-friendly Its properties are given as ... The app works best on a laptop, but You can for you can also add it instance practice to the home screen physics homework of your smartphone with it At Step-Wise, Effectively, this The answers are 1.1 bar \checkmark gives an infinite entered through exercises use Amazing! Keep it up randomly generated amount of new intuitive $11 \cdot 10^4$ Pa \checkmark practice material input fields numbers/parameters Looking good. $0.11 \frac{N}{mm^2}$ ~ You solved it! ØØ You also insert units into these, which are checked by a smart physics engine Made a mistake? Really can't figure $1.1 \ \mathrm{N}$ X Step 1 out an exercise? The unit you used does not indicate pressure Put all given values in standard units 1.1 Pa X The given value is too small. V =110 000 Pa X T =You used too many significant digits On incorrect answers. Then you can split the þ Step-Wise tries to exercise up into steps find the fault This will guide you This gives you automatic through it step by step feedback on your work If you solve or give Some exercises Step 2 Step 3 up on an exercise, can be solved in Through which law do Find the new pressure you always get a you want to solve this? multiple ways using the gas law clear solution Solution The gas law The gas law states $pV = mR_sT$ Poisson's law Inserting numbers results in ... If you're stuck, you'll find You can then choose your where you went wrong own solution method Or if things went well, The rest of the exercise you can see if there was automatically adapts maybe an easier solution

Guiding the learning process: the skill tree



Planned extensions: more interaction

