

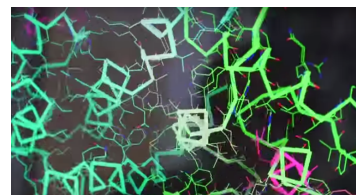
Computer Science has been at the cornerstone of many of the biggest innovations that we use to fuel everyday life. In 2009 a group from the Wharton School set out to figure out the most important innovations from the preceding 30 years. In creating this list, the judges defined innovation as ***something new that creates new opportunities for growth and development.***

## Top 30 innovations: 1979-2009

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|--|--|---|
| 1. Internet, broadband, WWW (browser and html)     | 10. Non-invasive laser/robotic surgery (laparoscopy)           | 19. Large scale wind turbines             |
| 2. PC/laptop computers                             | 11. Open source software and services (e.g., Linux, Wikipedia) | 20. Social networking                     |
| 3. Mobile phones                                   | 12. Light emitting diodes                                      | 21. Graphic user interface (GUI)          |
| 4. E-mail  | 13. Liquid crystal display (LCD)                               | 22. Digital photography/videography       |
| 5. DNA testing and sequencing/Human genome mapping | 14. GPS systems  | 23. RFID and applications (e.g., EZ Pass) |
| 6. Magnetic Resonance Imaging (MRI)                | 15. Online shopping  | 24. Genetically modified plants           |
| 7. Microprocessors                                 | 16. Media file compression (jpeg, mpeg, mp3)                   | 25. Bio fuels                             |
| 8. Fiber optics                                    | 17. Microfinance   | 26. Barcodes and scanners                 |
| 9. Office software (spreadsheets, word processors) | 18. Photovoltaic Solar Energy                                  | 27. ATMs                                  |
|  |  | 28. Stents                                |
|  |  | 29. SRAM flash memory                     |
|  |  | 30. Antiretroviral treatment for AIDS     |

## Impact of Computer Science on these Innovations

The field of Computer Science played an important role in the creation of many of these innovations, and has transformed the way each of these innovations now work. Everything from microfinance to DNA sequencing has been completely changed thanks to people applying computer science techniques and tools to help solve these problems.



Want to learn more about innovations made possible by Computer Science? Check out this video from our CS Principles course! [bit.ly/cs-innovation-video](https://bit.ly/cs-innovation-video)