**Programming Usage: Then (20 Years Ago) vs. Now**

* **Then (Early 2000s):**
  + **Dominant Languages:**
    - Java, C++, and Visual Basic were widely used.
    - Web development was emerging, with HTML, CSS, and early JavaScript.
  + **Focus:**
    - Desktop applications and server-side software were primary.
    - Websites were mostly static.
    - Software development often involved complex, manual processes.
  + **Access:**
    - Programming knowledge was more specialized.
    - Resources and tools were less accessible to the general public.
* **Now (Present):**
  + **Dominant Languages:**
    - Python, JavaScript, and Kotlin have gained immense popularity.
    - Cloud computing and mobile development drive demand.
  + **Focus:**
    - Web and mobile applications are prevalent.
    - Data science, AI, and machine learning are major fields.
    - Automation and cloud-based services are essential.
  + **Access:**
    - Programming is more accessible through online resources and bootcamps.
    - Open-source tools and frameworks simplify development.
    - IA tools are starting to assist in code generation.
* **Key Shifts:**
  + From desktop to web and mobile.
  + From manual to automated processes.
  + From specialized to more accessible knowledge.