1.Here are 20 popular programming languages:

1. Python

2. Java

3. JavaScript

4. C++

5. C#

6. Ruby

7. Swift

8. Go

9. Rust

10. PHP

11. TypeScript

12. Kotlin

13. R

14. MATLAB

15. Perl

16. Objective-C

17. Lua

18. HTML/CSS

19. Shell Scripting (Bash)

20. SQL

21. Scala

22. Groovy

23. Perl

24. Haskell

25. Lua

26. Dart

27. Julia

28. Shell

29. COBOL

30. Fortran

31. Assembly

32. Lisp

33. Prolog

34. Ada

35. Tcl

36. Scheme

37. Smalltalk

38. Elixir

39. Crystal

40. Verilog

2.Here are examples of 5 dynamic websites and 5 static websites:

Dynamic Websites:

1. Facebook

2. Twitter

3. YouTube

4. Airbnb

5. Amazon

Static Websites:

1. GitHub Pages

2. About.me

3. HTML5UP

4. Single Page Love

5. CSS Zen Garden

Dynamic websites have interactive and changing content, often personalized for the user. Static websites, on the other hand, have fixed content that doesn't change unless manually updated.