"Plan and Document". Before coding, project managers analyse plans. Write detailed documentation of phases of plan. Progress are recorded against the plan. Change via project must be reflected in the constitution and periodically replan.

	Waterfall	Spiral	Agile
Description	1. Requirements analysis & specification 2. Architectural design 3. Implementation & Integration 4. Verification 5. Operation & Maintenance Depends on project manager	Combine Plan and Document with prototypes. Rather than plan & document all requirements 1st, develop plan & requirement document across each iteration of prototype as needed and evolve with the project	Constant iteration. Agile emphasizes: · Test-Driven Development (TDD via either a narrative, stories down etc) · Have a re-evaluate customer requirements. · Velocity (imp # of points/week) to measure progress
Benefit	Good for bigger teams	Involve prototypes & validation	Reactive decisions

HTTP:
- HTTP request includes: request method (GET, POST, etc.), Uniform Resource Identifier (URI), HTTP status of version understood by the client. Another ... is info regarding transfer request
- Since HTTP is stateless, you can continue to retrieve data to help guide them through the pages of the app (e.g. authentication, direct hit tracking, communication, etc.)

3 Tier Based Architecture

Based Defining Architecture

MVC:
- Controller moderates between model and view
- Any action on variable be fixed in the controller is made available in the view
- Move king from A to the subject is made subject the ability to perform CRUD
- Any action on variable be fixed in the model that is not part of the database will be so it should be initialize if for every request made to the app
- In MVC, each interaction the user can do a handler for a controller action.
- Route: routes map <HTTP verb URI>→controller action

Ruby:
- Reflection lets us ask an object questions about itself and to modify itself
- Metaprogramming lets us define new code at runtime
- Modules → Code lines of methods that aren't a class
- A class is the set of all variable bindings you an "see" at a given point in time if "class over" all the variables you can see, including instance variables
- Ruby blocks are closures: they carry their environment around with them
  - Break: lets in coding errors by expecting that in the line where it return to do it
- Duck typing can manage behaviour over "care in" variable and is if an "everything is a method call—the return goal is in the method?