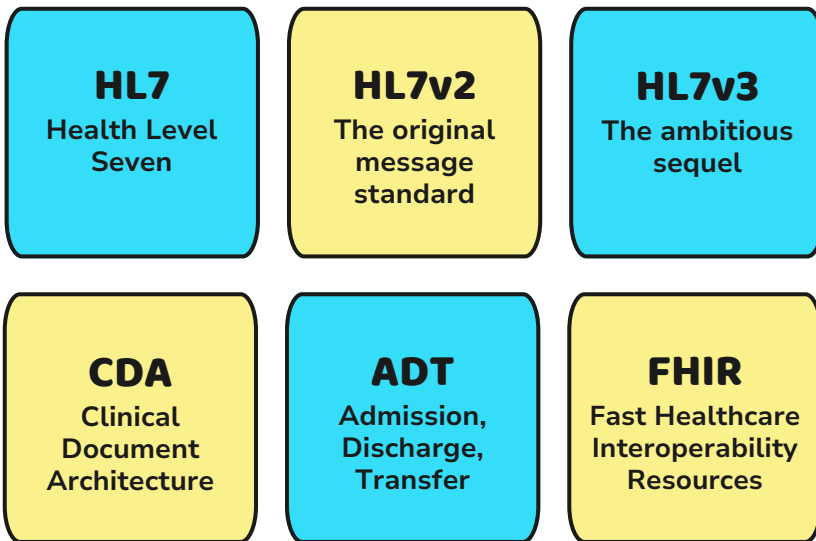


# FHIR 101 Course Recap

Your FHIR cheat sheet

## The alphabet soup

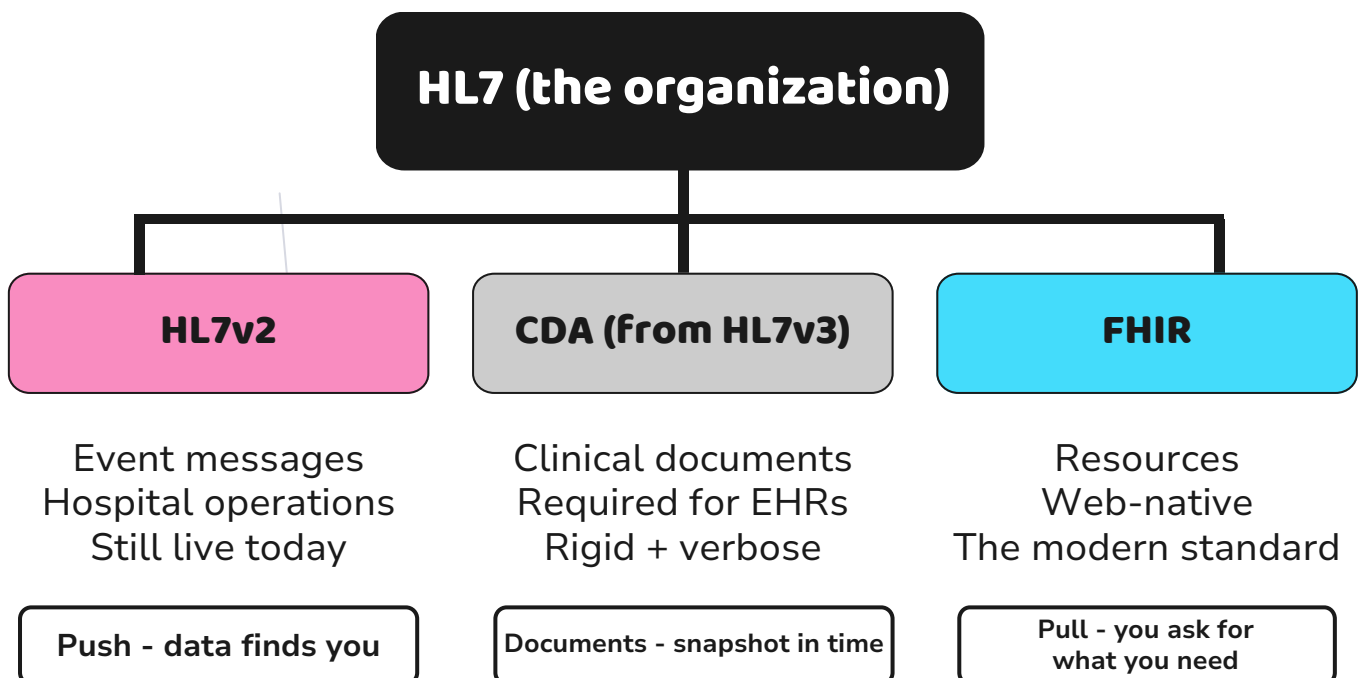


## FHIR, decoded

- F Fast**  
Modern web tech, days, not months
- H Healthcare**  
Built for messy clinical data
- I Interoperability**  
Systems share data, no friction
- R Resources**  
Small, modular data packets

**A FHIR resource is always:**  
self-contained · unique ID · standard fields · defined by spec

## The alphabet soup, sorted



# Know these 10 resources – your 80/20 rule

|                                              |                                                          |
|----------------------------------------------|----------------------------------------------------------|
| <b>Patient</b> Who the data is about         | <b>Practitioner</b> The clinician                        |
| <b>Encounter</b> A visit or interaction      | <b>Observation</b> Measurements + results — labs, vitals |
| <b>Condition</b> Diagnoses + problems        | <b>MedicationRequest</b> Prescriptions                   |
| <b>DiagnosticReport</b> Lab reports, imaging | <b>DocumentReference</b> Clinical notes, documents       |
| <b>AllergyIntolerance</b> Allergies          | <b>Procedure</b> Procedures                              |

Know these 10. You'll cover 80% of real-world use cases.

## Quick facts to keep straight

### Resource

A discrete, self-contained piece of data. Same fields every time, a unique ID, defined by spec.

### Bundle

Packages multiple resources into one response, like a search returning a searchset bundle. Also powers batch and transaction requests.

### Versioning

Use R4, today's standard. R5 is out but adoption is early. R6 is still in the ballot process.

### Implementation Guide (IG)

US Core and Da Vinci, both built on the base spec. USCDI is not an IG, it's the federal data policy behind US Core.

### Profiles

Rules that customize a resource for a use case, like the US Core Patient profile. Base spec is the building code; profiles are the HOA rules.

### Cardinality

The min to max notation on each field (0..1, 1..\*). First number: required or not. Second: how many allowed. Profiles can narrow it.

## Why variation happens

### 01 Between EHRs

Epic, Oracle Health, athenahealth expose different resources and auth.

### 02 Between versions

Vendors ship updates; every org upgrades on its own schedule.

### 03 Between installs

Same EHR, same version - different site build and workflows.

*Connect once. Exchange anywhere.*