

Let's Build profiles!

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Overview

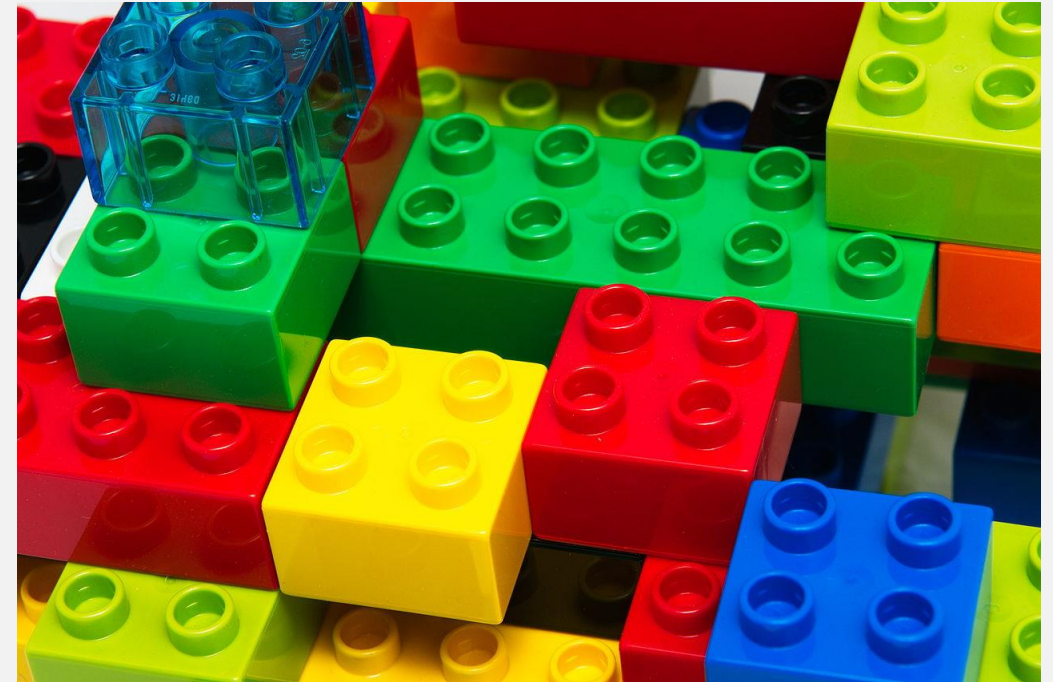
- Introduction – 5 min
- Profiling
- Goals
- Tooling
- Guided exercises
- Q&A

Find the exercises: <https://simplifier.net/guide/acme-profiling-tutorial-r4>
download and install Forge for FHIR R4

Profiling – possibilities

Describe adaptations based on use & context:

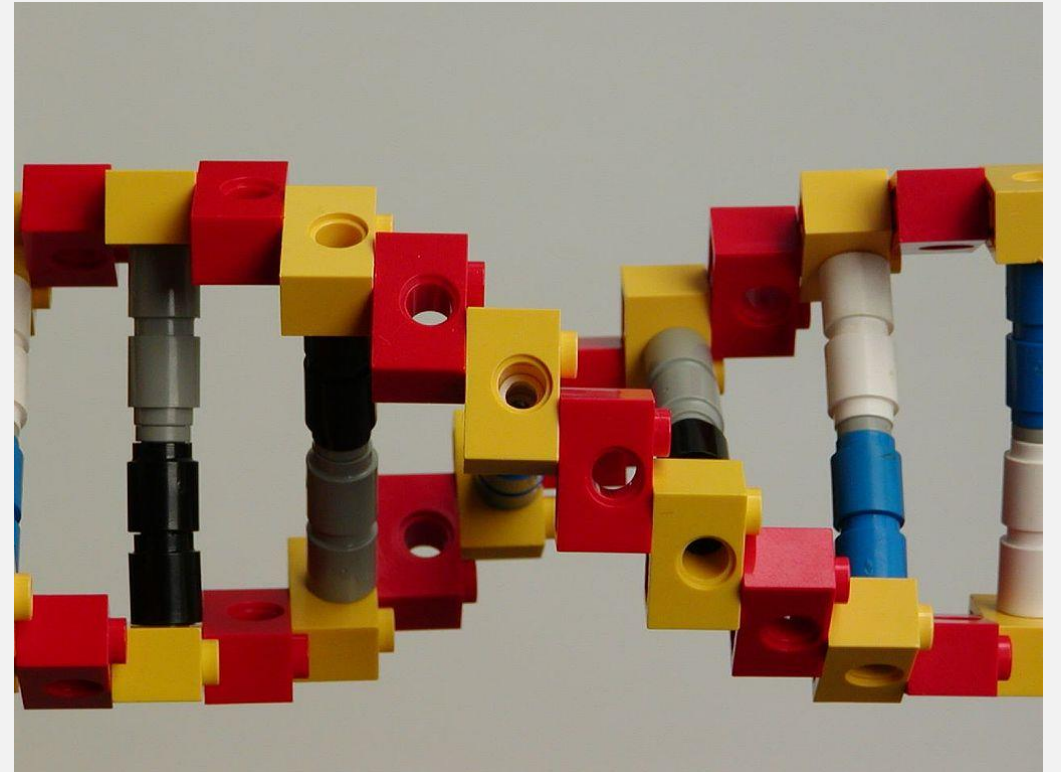
- Which resources & elements are used?
- Which API features are used?
- Which terminologies are used?
- How to map these to local requirements?



Profiling – essentials

Allow for these usage statements:

- To be authored in a **structured** manner
 - Independent of serialization format
- To be published in a repository
- To drive validation, code generation etc.



Canonical Url

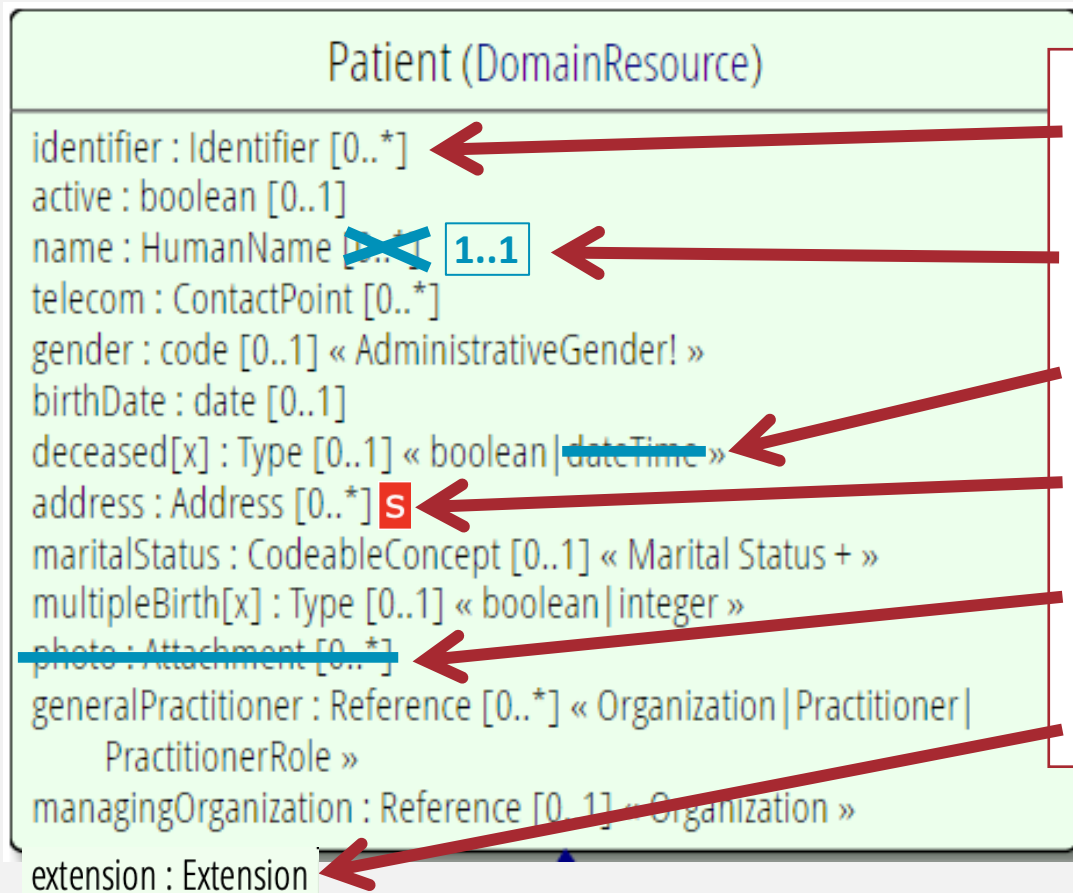
- Each conformance resource gets a unique identifier (*uri*)
 - Author-assigned
 - Shared by all instances
- This is called the *canonical url*
- Example from the spec:
<http://hl7.org/fhir/StructureDefinition/Patient>
- Examples from profiles:
<http://hl7.org/fhir/us/core/StructureDefinition/us-core-patient>
<http://fhir.nl/fhir/StructureDefinition/nl-core-patient>
<https://fhir.nhs.uk/R4/StructureDefinition/UKCore-Condition>

Today's Goal

- To learn how to start profiling – the art of defining your FHIR data model – with Forge

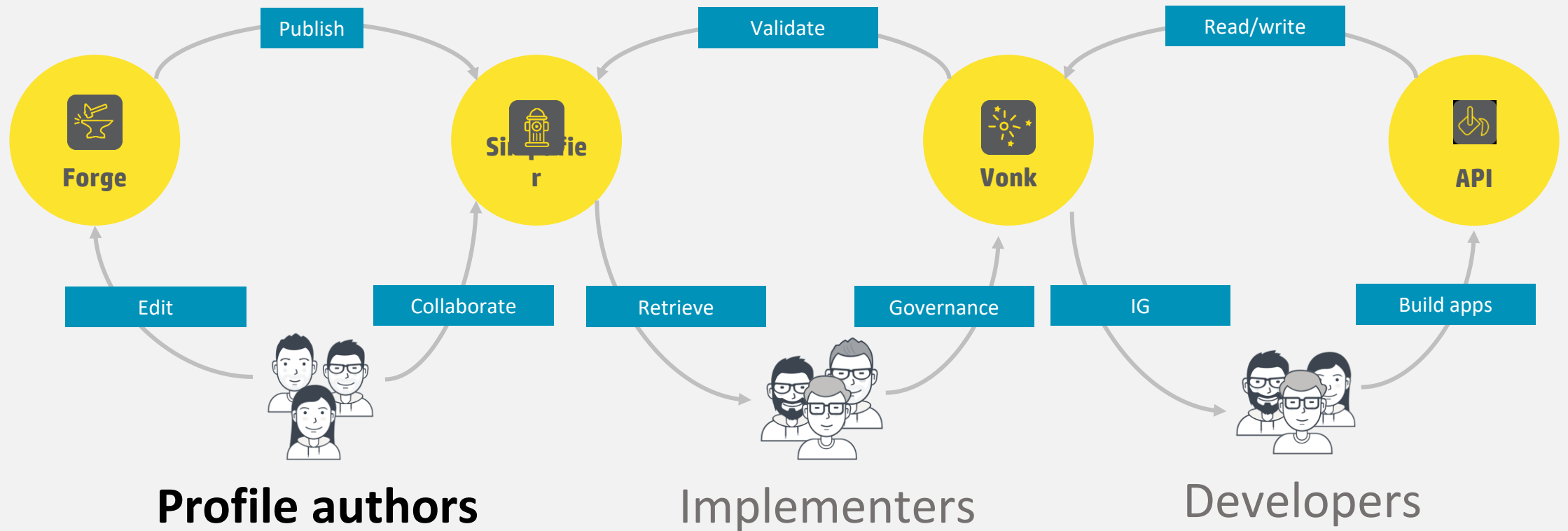


FHIR profiling in 1 slide



- Demand that the identifier uses your national patient identifier
- Limit names to exactly 1 (instead of 0..*)
- Limit choices for datatypes
- Address is important
- Forbid photo element
- Add an extension, for example "Citizenship"

The Firely FHIR ecosystem



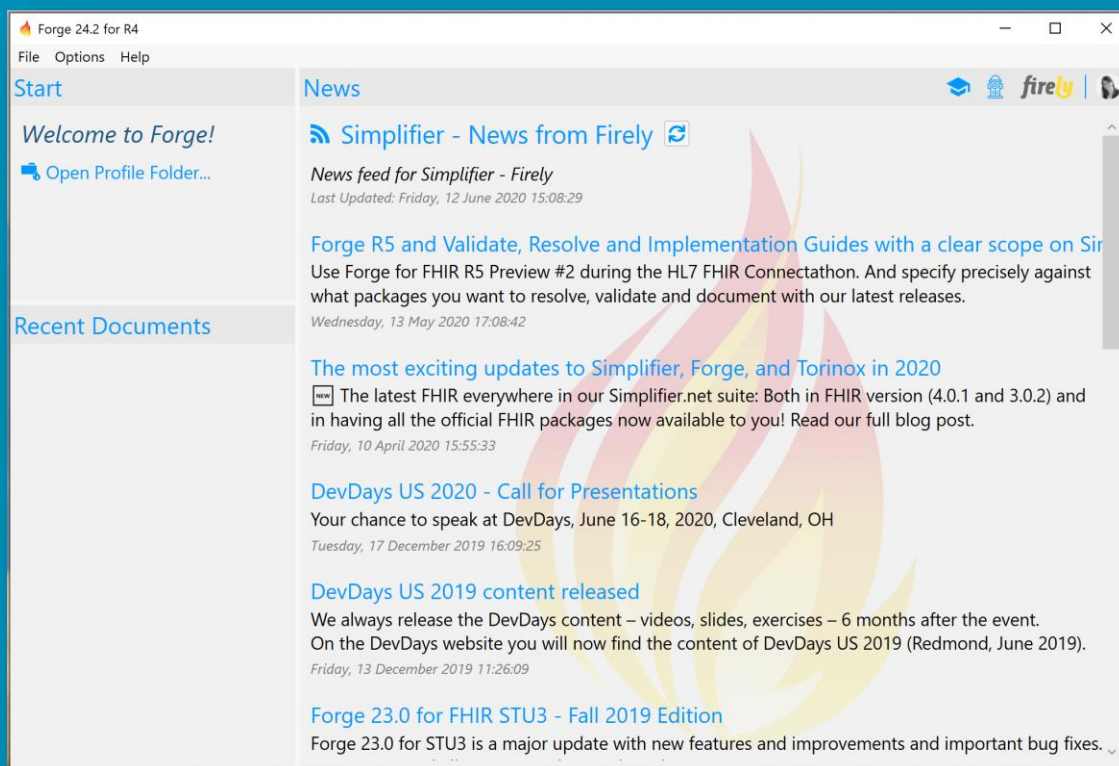
Forge

- Graphical editor for FHIR resources
 - Profiles, extensions, logical models, search parameters, operation definitions
- Windows desktop application
 - Can be run on Mac/Linux via wine or VM
 - Different app per major FHIR version (2-4)
- Licensed together with Simplifier.net
 - Free for non-commercial use: personal and educational use (like now)
 - Paid plans for commercial use

Outline exercises

- Basic profiling
- Profile references
- Extensions
- Terminology bindings
- Derived profiles and slicing

Demo Forge en Simplifier



Exercises

- Find the exercises:
<https://simplifier.net/guide/acme-profiling-tutorial-r4>
- Think of your unique base URL for your FHIR profiles
 - E.g. <http://yourname.yourcountryextension/>
- We're using Forge for FHIR R4
- Ask for help

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