- Wrapped Roles types / values. Transforms. Model primitives: Resources from URNs.
 Resource Roles reified SPO Resources types / values, Kinds types / values, Statements,
 Class, Instance, Occurrence, Occurring, Attribute, Context, Value, Role, Models Roles
 type / values. Resources hierarchies / APIs: Mappings / Transforms: CSPO roles getters /
 model domain browsing getters (reified Mappings) DTOs / Dynamic Functional, DTOs
 (hashmap) behavior: parameterized mapping transform, mapping instance attributes /
 contexts (referrers / keys: address::city::street). Templates / reified mappings declarative
 augmentation data flows.
- Graph deep ml: embeddings. Data: classif, schema: cluster, behavior: regression.
- Empresa::Pedro::mgr::salary
- Transforms: Resource:: statements : Resource / Statement(s : Statement) (occurrences).
- Reified / resolvable data flows.
- Ontology alignments: Data / Schema / Behavior Augmentations. Model / Schema / Upper / Domains: purposes / gestures (MVC / DCI Mappings / Transforms) layers.
- Class / Instance / Reified (occurrence / ocurring) / Transforms:
- Statement
- Kind
- CK (SK / OK flow signature)
- SK
- PK
- OK
- Subject
- Predicate
- Object
- Resource
- Class
- Instance
- Occurrence
- Value
- Occurring / Context (Statements / Kinds)
- Sets
- Graphs
- Roles (Metaclass, Class, Occurrence, Context, Role)
- Dimensional (Dimension, Measure, Unit, Value)
- Discrete (Relationship, Relation, Kind, Entity)
- MVC / DCI Mappings / Transforms
- (...)

- Layers, input layer: Model Roles. Aggregation: Layer Roles shifting until full Layers Roles Statements. Layer: Augments Models.
- Core Statements Roles Resource Interleaved Model (Infer Types, PKs, FKs):
- Occurrence: (Class, Instance, Attribute, Value);
- Occurring: (Class, Instance, Occurrence, Role);
- Statement Transforms / Relations: order, equivalence, roles, etc.
- Resource of Resource Monad: Occurrence / Occurrings Quads CSPO Members Aggregation Transforms.
- Resource(t : T) :: contexts :: subjects :: predicates :: objects : Resource(u : U)

- Resource of URNs: Aggregated CSPOs Transforms of Occurrences / Occurrings. Matchings.
- <u>Resource.of</u>(Resource / Class, Instance, Occurring Attribute / Occurring URN, Attribute Value / Occurring Role) :: contexts :: subjects :: predicates :: objects : Resources(CSPO / Resource / occurrence / occurring : URN).
- Resources of Resources: Occurrences / Occurring CSPOs Transforms Matching Wrapped / Wrappings / Transforms Resource Types Shapes Matching Templates. Data flow, apply transforms, order, lists.
- Resource.of(templ : Templ) :: contexts : Resources(c : Context).

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- Layer Template Mappings:
- Template : Context : Statement : Resource Layer Roles Monads.
- Layers Quads Aggregation: rotating value role types from previous layer to next layer from V to C):
- Canonical Template Mapping Layers: Aggregation of Template Matching Models Layers until first layer Value is wrapped into final layer Context. Perform Layers Augmentations.
- Monads. Wraps Models Roles. Matching: Patterns wrapped Resource Roles values: placeholders, variables, wildcards, reified instances. Example: Template wraps previous layer Value as Context, Layer Context Value wrapped as Subject value (shifting).
- Core Roles (Wrappers):
- Resource : Monad(x : Resource);
- Statement : Monad(x : Resource) : Resource, Quad DTO.
- Context : Monad(x : Resource) : Statement;
- Template : Monad(x : Resource) : Context.
- Template : Context : Statement : Resource
- Input Layers: Core Statements Roles Resource Shapes: (interleaving graphs models): Statements CSPO.
- Occurrence Input: (Class, Instance, Attribute, Value);
- Occurring Input: (Class, Instance, Occurrence, Role);
- Output Layer: (Template, Context, Statement, Resource); Input OPSC Resources wrapped in output Layer Roles.
- Sets, Graph, Roles: Services / Augmentations helper Models / Facades.
- Example:
- (Amantes, Pedro, Ama, María);
- (MariaAmadaPor, Amantes, Pedro, Ama);
- (Amar, MariaAmadaPor, Amantes, Pedro);
- (PedroAmaA, Amar, MariaAmadaPor, Amantes);
- (Amor, PedroAmaA, Amar, MariaAmadaPor);

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- Models:
- Core: Occurrence, Occur. I/O.
- Helper:
- Sets
- Graph
- Roles

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- Augmentations:
- Model Augmentations:

- Alignment: Data Matching. Resources.
- Alignment::match
- Alignment::perform
- Alignment::greaterThan
- Alignment::equals
- Alignment::lessThan
- Activation: Schema Matching. Kinds.
- Activation::match
- Activation::perform
- Activation::superTypeOf
- Activation::sameTypeOf
- Activation::subTypeOf
- Aggregation: Behavior Matching. Contexts Flows.
- Aggregation::match
- Aggregation::perform
- Aggregation::beforeThan
- Aggregation::contains
- Aggregation::containedIn
- Aggregation::afterThan
- Domain Augmentations:
- Transforms Reified in Layers Contexts. Pattern Matching Template Layer resolved:
- Mapping::match
- Mapping::apply
- Mapping::Context
- Mapping::Subject
- Mapping::Predicate
- Mapping::Object

- Encode reified Template Mappings / Transforms. Patterns:
- Model / Domain Augmentations Mappings / Transforms:
- (Wrapper, Wrapped, Mapping, Transform);
- Next Layer step: match / apply Augmentations.
- Layers Template: Layer of CSPO Data Flow Patterns Resolution Resources: Reified (meta) Resources.

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- Once Models Layers Matrix are built and populated / aggregated:
- Layers steps Augmentations: perform shifting and wrapping of aggregation values. Layer step Template Mapping: Layer::nextLayer : Layer, for each Layer, match / performs.

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- Template, Mapping, Pattern
- (Template, Context, Statement, Resource);
- Resource :: occurrences :: roles :: contexts : Resource

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