***Domain Object Annotations***

***Apache Isis™ Cheat Sheet***

[**http://isis.apache.org/docs/latest/about.html**](http://isis.apache.org/docs/latest/about.html)

@DomainObject @DomainObjectLayout

@Property, @PropertyLayout

@Collection, @CollectionLayout

@Action, @ActionLayout

@Parameter, @ParameterLayout

@Title, @HomePage, @MinLength,

@MemberSupport, @Programmatic

@javax.inject.Inject, @javax.annotation.Nullable  
@lombok.Data, @lombok.ToString, @lombok.Builder, @lombok.RequiredArgsConstructor

***Layout***

*Xxx.layout[.layoutName].xml*, *Xxx.layout.xml*,

*Xxx.layout.fallback.xml >* @XxxLayout

String title(), String iconName(), String cssClass(),

String layout()

***JPA Entities* (javax.persistence)**

@Entity, @Table, @NamedQueries,

@Id, @Version, @Column, @Transient

***JDO Domain Entities*** **(javax.jdo.annotation)**

@PersistenceCapable, @DatastoreIdentity

@Inheritance, @Discriminator; @Version

@Queries, @Uniques, @Indices, @NotPersistent

@Column, @PrimaryKey, @Join, @Element

***JAXB View Models* (javax.xml.bind.annotation)**

@XmRootElement; @XmlType

@XmlAccessorType; @XmlTransient

referenced entities: @XmlJavaTypeAdapter(PersistentEntityAdapter.class)

***Domain Services (Menu or REST API)***

@DomainService @DomainServiceLayout

@PostConstruct, @PreDestroy (javax.annotation)

@javax.inject.Inject

***Domain Services (org.springframework)***

@Component, @Service, @Repository, @EventListener

***Layout***

*menubars.layout.xml* > @DomainServiceLayout

***Mixins***

@Property, @PropertyLayout

@Collection, @CollectionLayout

@Action , @ActionLayout

***Methods: Actions***

placeOrder(X x, Y y, Z z)

boolean hidePlaceOrder(); String disablePlaceOrder()

boolean hide{0|1|2}PlaceOrder(X|Y|Z);

String disable{0|1|2}PlaceOrder(X|Y|Z);

String validate{0|1|2}PlaceOrder(X|Y|Z);

String validatePlaceOrder(X x, Y y, Z z)

Collection<X|Y|Z> autoComplete{0|1|2}PlaceOrder

(X|Y|Z, search) (2 args)

Collection<X|Y|Z> choices{0|1|2}PlaceOrder(X|Y|Z)

X|Y|Z default{0|1|2}PlaceOrder() ;   
String namedPlaceOrder()

***Methods: Properties***

@lombok.Getter, @lombok.Setter;

getEmail(), setEmail(); boolean hideEmail();

String disableEmail(); String validateEmail(X); Collection<..> autoCompleteEmail(),

Collection<..> choicesEmail(); String namedEmail()

***Methods: Collections***

**v2.0.x**

@lombok.Getter, @lombok.Setter;

List<Order> getOrders(); boolean hideOrders();  
String disableOrders(); String namedOrders()

***Events***

@DomainObject(xxxLifecycleEvent=….)

@DomainObjectLayout(xxxUiEvent=….)

@Action(domainEvent=….) @Property(domainEvent=…) @Collection(domainEvent=…)

subscribe using Spring’s @EventListener

***RepositoryService***

allMatches(Query) & QueryDefault(…), persist(), remove()

***(some) other Applib Services***

MessageService, FactoryService, ClockService, WrapperFactory, EventBusService, BookmarkService, InteractionService, TransactionService, MetaModelService

***Error & Exception Handling***

RecoverableException, NonRecoverableExeption

***Value Types***

8 primitive types + wrappers; BigDecimal, BigInteger; java.util.Date, java.time.{LocalDate|LocalDateTime|  
LocalTime} dates; JODA dates; java.sql.{Date|Time|  
Timestamp}; enums; value types library

***Bootstrapping***

@SpringBootApplication; @SpringBootTest; @Configuration; @Import; @ComponentScan