## Bean Types

| | | |
|---|---|---|
| T | **@Stateless**(name="") | |
| T | **@Stateful**(name="") | |
| M | **@Init**(init = "") | |
| M | **@Remove**(retainIfException=false) | |
| T | **@MessageDriven**(name="", ActivationConfigProperty[] activationConfig={}) | |
| | **@ActivationConfigProperty**(propertyName="", propertyValue="") | |
| T | **@Entity**(name="", access=[*PROPERTY*,FIELD], entityType=[*CMP*,BMP], version=3) | |
| T | **@Remote** | |
| T | **@Local** | |
| M | **@BusinessMethod** | |

## Transaction and Security

| | |
|---|---|
| T | **@TransactionManagement**( value=[*CONTAINER*,BEAN]) |
| TM | **@TransactionAttribute**(value=[MANDATORY, *REQUIRED*, REQUIRES_NEW, SUPPORTS, NOT_SUPPORTED, NEVER]) |
| TM | **@MethodPermissions**(String[] roles) |
| TM | @**PermitAll** |
| M | **@DenyAll** |
| T | **@RunAs**(String rolaname) |
| T | **@DeclareRoles**(value={}) |
| TM | **@RolesAllowed**(value={}) |

## Callbacks

| | |
|---|---|
| T | **@CallBackListener**(String classname) |
| M | **@PostConstruct** |
| M | **@PreDestroy** |
| M | **@PostActivate** |
| M | **@PrePassivate** |
| Te | **@EntityListener**(String classname) |
| Me | **@PrePersist** |
| Me | **@PostPersist** |
| Me | **@PreRemove** |
| Me | **@PostRemove** |
| Me | **@PreUpdate** |
| Me | **@PostLoad** |

## Resources

| | |
|---|---|
| TMF | **@Resource**(name="", type=Object.class, AuthenticationType=[*CONTAINER*,Application], shareable=true, resourceType="", mappedName="") |
| T | **@Resources**(Resource[] value) |
| TMF | **@EJB**(name="", businessInterface=Object.class, mappedName="", description="") |
| T | **@EJBs**{EJB[] value) |

## Interceptors, Exceptions

| | |
|---|---|
| T | **@Interceptors**(Class[] value) |
| M | **@AroundInvoke** |
| TM | **@ExcludeDefaultInterceptors** |
| M | **@ExcludeClassInterceptors** |
| T | **@ApplicationException(rollback=false)** |

## Ealier View Client

| | |
|---|---|
| Ts | **@RemoteHome**(String homeinterfacename, String remoteinterfacename) |
| Ts | **@LocalHome**(String localinterfacename, String localinterfacename) |

## Queries

| | |
|---|---|
| TM | **@FlushMode**(value=[COMMIT, AUTO, NEVER]) |
| PTM | **@NamedQuery**(name="", queryString, resultType, ejbInterfaceType[*LOCAL*, REMOTE]) |
| PTM | **@NamedQuerys**(NamedQuery[] value) |

## ResultSetMapping

| | |
|---|---|
| TM | **@SqlResultSetMapping**(String name, EntityResult[] entities={}, ColumnResult[] columns={}) |
| | **@EntityResult**(String name, FieldResult[] fields = {}) |
| | **@FieldResult**(String name, column) |
| | **@ColumnResult**(String name) |

## Object-Relational-Mapping

| | |
|---|---|
| T | **@Table**(name="", catalog="", schema="", UniqueConstraint{}={}, specified=true) |
| T | **@SecondaryTable**(name="", catalog="", schema="", JoinColumn[] join={}, UniqueConstraint[] uniqueConstraints={}) |
| T | **@SecondaryTables**(SecondaryTable[] value) |
| | **@UniqueConstraint**(primary=false, String[] columnNames) |
| TMF | **@Column**(name="", primaryKey=false, unique=false, nullable=true, insertable=true, updatable=true, columnDefinition="", secondaryTable="", length=255, precision=0, scale=0, specified=true) |
| TMF | **@JoinColumn**(name="", referencedColumn="", primaryKey="", unique=false, nullable=true, insertable=true, updatable=true, columnDefinition="", secondaryTable="") |
| TMF | **@JoinColumns**(JoinColumn[]) |
| MF | **@GeneratedValue**(generationType=[*NONE*, TABLE, SEQUENCE, IDENTITY, AUTO), generator="") |
| MF | **@Id** |
| MF | **@EmbeddedId**(AttributeOverride[]={}) |
| | **@AttributeOverride**(name, Column[]={}) |
| T | **@IdClass** |
| MF | **@Transient** |
| MF | **@Version** |
| MF | **@Lob**(fetch=[*LAZY*, EAGER], type=[*BLOB*,CLOB]) |
| MF | **@Serialized**(fetch=[LAZY, *EAGER*]) |

## Embedded Values

| | |
|---|---|
| T | **@Embeddable** |
| MF | **@Embedded**(AttributeOverride[] override={}) |

## Relations

| | |
|---|---|
| MF | **@ManyToOne**(targetEntity=void.class, cascade={ALL,MERGE, PERSIST,REFRESH,REMOVE}, fetch=[LAZY, *EAGER*], optional=true) |
| MF | **@OneToOne**(targetEntity=void.class, cascade={...}, fetch=[...],optional=true, mappedBy="", usePKasFK=false) |
| MF | **@OneToMany**(targetEntity=void.class , cascade={...}, fetch=[...], mappedBy="") |
| MF | **@AssociationTable**(table=@Table(specified=false), joinColumns={}, inverseJoinColumns={}) |
| MF | **@ManyToMany**(targetEntity=void.class, cascade={...}, fetch=[...], mappedBy="") |

## Inheritance

| | |
|---|---|
| T | **@Inheritance**(strategy=[*SINLGE_TABLE*, TABLE_PER_CLASS, JOINED], AttributeOverride[] inheritedAttributes={}) |
| T | **@DiscriminatorColumn**(name="DTYPE",discriminator Type=[*STRING*,CHAR,INTEGER],columnDefinition="", length=31) |
| T | **@DiscriminatorValue**(String value) |
| T | **@InheritanceJoinColumn**(name="", referencedColumnNames="", columnDefinition="") |
| T | **@InheritanceJoinColumn**( InheritanceJoinColumn[] columns) |
| T | **@DiscriminatorColumn**(name="", nullable=false, columnDefinition="", length=10) |
| T | **@MappedSuperclass** |

## Generators

| | |
|---|---|
| MF | **@GeneratedValue**(name="", strategy=[*AUTO*,IDENTITY,SEQUENCE,TABLE], pkColumnName="", valueColumnName="") |
| PTMF | **@SequenceGenerator**(String name, sequenceName="", initialValue=0, allocationSize=50) |
| PTMF | **@TableGenerator**(String name, table="", catalog="", schema="", pkColumnName="", valueColumnName="", pkColumnValue="", initialValue=*0* allocationSize=*50*, uniqueConstraints={}) |

## Legend

| | |
|---|---|
| PMTF | Annotation applies to Package, Method, Type, Field |
| Me | Annotation applies to Entity Bean Methods |
| Ts | Annotation applies to Session Bean |
| *VALUE* | Default Value |

### EJB 3.0 Annotations Cheat Sheet

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Version 1.2, based on EJB3.0 PFD
Report errors to meier@fnogol.de