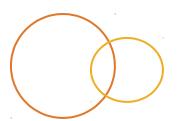
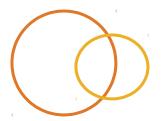




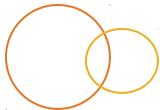
Controlling the Response

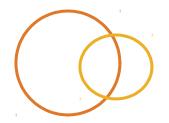














- Obtain a ResponseBuilder initialized to an OK status
- Ouse a ResponseBuilder to configure/reconfigure headers, entity, status code, and content-type
- Prepare a Response object from a ResponseBuilder
- Return a Response object from a JAX-RS service method





- OHTTP requests receive three things in response
 - Status code
 - Headers
 - Entity body
- A service method that simply returns a Java object has no control over the status code, nor headers
 - JAX-RS will fill in some headers, and return a success code if the request was routed successfully and the method did not throw an exception.

Controlling HTTP Response



- ojavax.ws.rs.core.Response object aggregates HTTP status code, headers, and entity
- Response has a static factory that creates a builder
- Response.ResponseBuilder allows manipulation of all three elements, then creation of final Response object
 - Initial creation of builder requires a guess at the expected status code, but this code can be changed later

Using Response / Response Builder

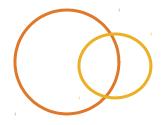
```
public Response doStuff() {
ResponseBuilder rb = Response.ok();
rb.header("x-header", "a header value");
String entity = getEntity();
if (entity != null) {
  rb.entity(entity);
} else {
  rb.entity("Sorry, that didn't work");
  rb.status(Response.Status.NOT_FOUND);
return rb.build();
```

Response And Content Type



- By default JAX-RS will attempt to set the content type of the response by negotiation with the caller
 The Response object can override this using the
- type() method of the ResponseBuilder
 - O Do this with caution, JAX-RS usually makes the right choice
- JAX-RS also converts to the target type, though we have not looked at this yet
 - ^oi.e. Java objects ↔ JSON or XML







- ©Create a service endpoint on the URI /response/<id> where <id> is any number
 - If the value of <id> is between 0 and 100, return a text message "Item <id> found", along with a status code of 200, and a header "x-range" set to the value of "ok"
 - o If the value of <id> is outside the limits, return status 404 and the html message
 - <html><body><h1>ID Not Found</h1></body></html>
 - Be sure to set the content type.