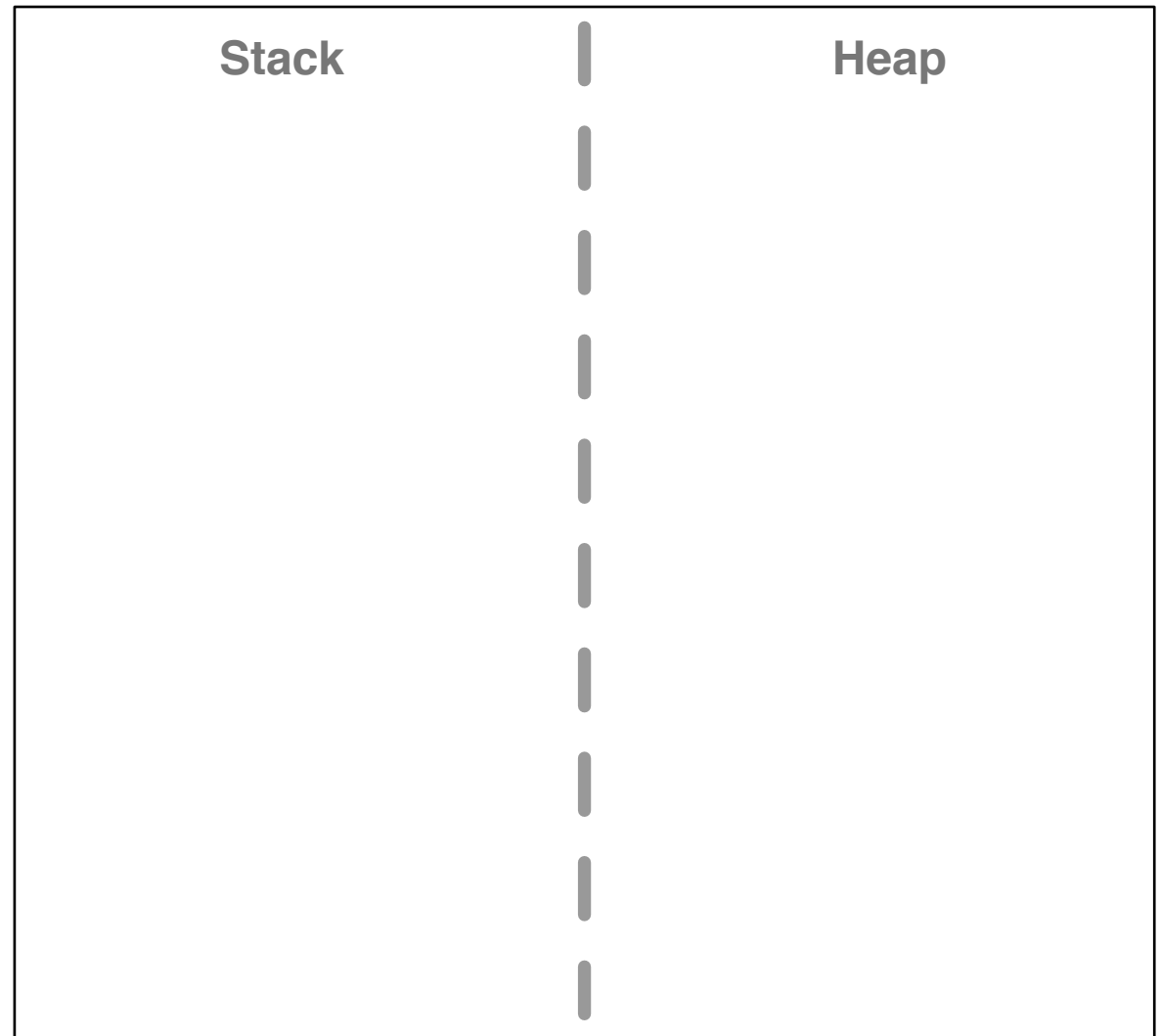


Memory Diagram - Step 1 of 16

```
double x, y, z;  
Human persona, role, part;  
  
x = 3.1;  
y = 4.2;  
z = x;  
  
persona = new Human("Leela");  
role = new Human("Fry");  
part = persona;  
  
x = 8.2;  
persona.setName("Hermes");  
  
persona = new Human("Amy")  
role = persona;  
persona.haveBirthday();  
  
S.o.p(x);  
S.o.p(y);  
S.o.p(z);  
  
S.o.p(persona.getName());  
S.o.p(role.getAge());  
S.o.p(part.getName());
```



Output:

Memory Diagram - Step 2 of 16

```
double x, y, z;
```

```
Human persona, role, part;
```

```
x = 3.1;
```

```
y = 4.2;
```

```
z = x;
```

```
persona = new Human("Leela");
```

```
role = new Human("Fry");
```

```
part = persona;
```

```
x = 8.2;
```

```
persona.setName("Hermes");
```

```
persona = new Human("Amy")
```

```
role = persona;
```

```
persona.haveBirthday();
```

```
S.o.p(x);
```

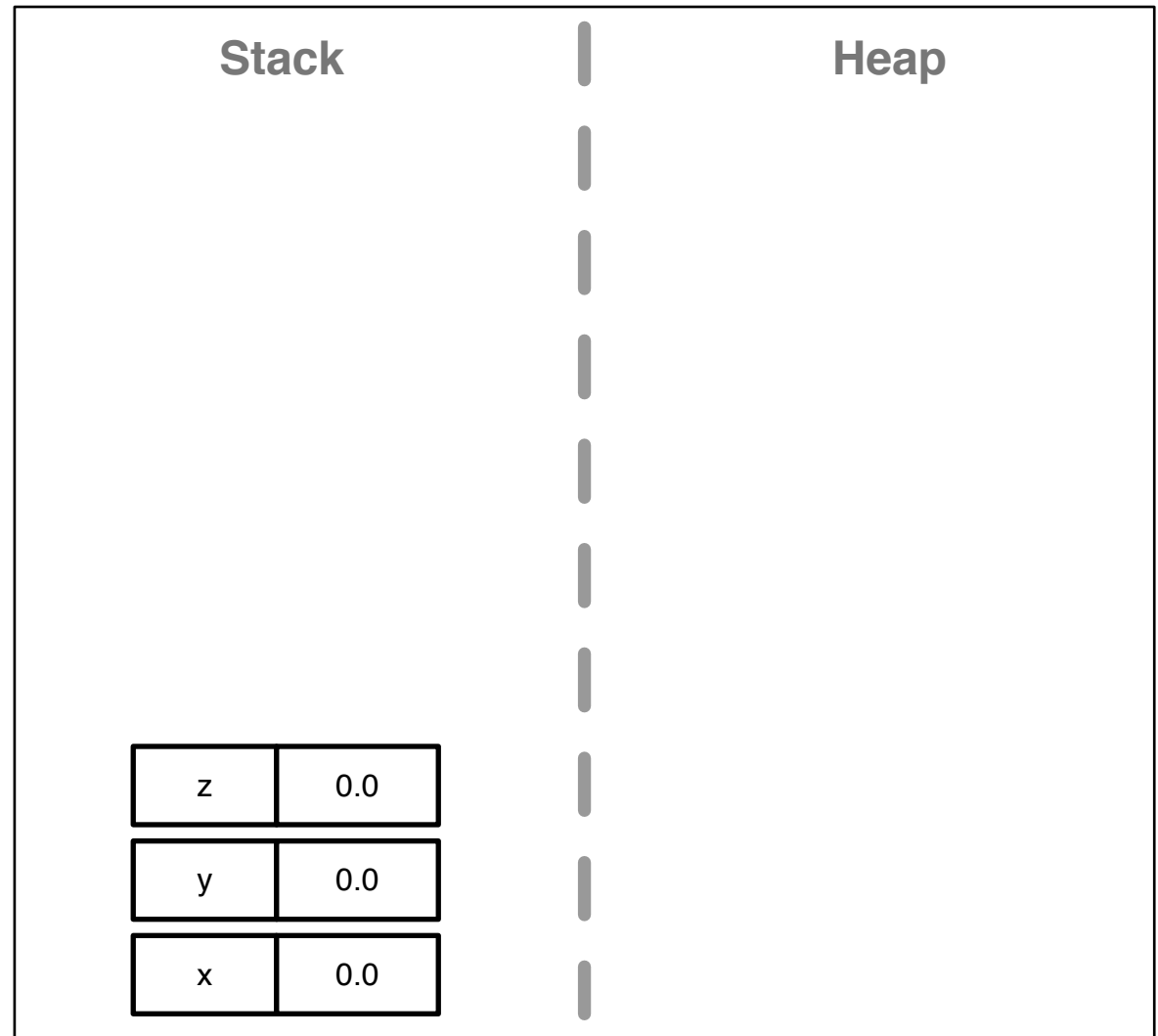
```
S.o.p(y);
```

```
S.o.p(z);
```

```
S.o.p(persona.getName());
```

```
S.o.p(role.getAge());
```

```
S.o.p(part.getName());
```



Output:

Memory Diagram - Step 3 of 16

```
double x, y, z;
```

```
Human persona, role, part;
```

```
x = 3.1;
```

```
y = 4.2;
```

```
z = x;
```

```
persona = new Human("Leela");
```

```
role = new Human("Fry");
```

```
part = persona;
```

```
x = 8.2;
```

```
persona.setName("Hermes");
```

```
persona = new Human("Amy")
```

```
role = persona;
```

```
persona.haveBirthday();
```

```
S.o.p(x);
```

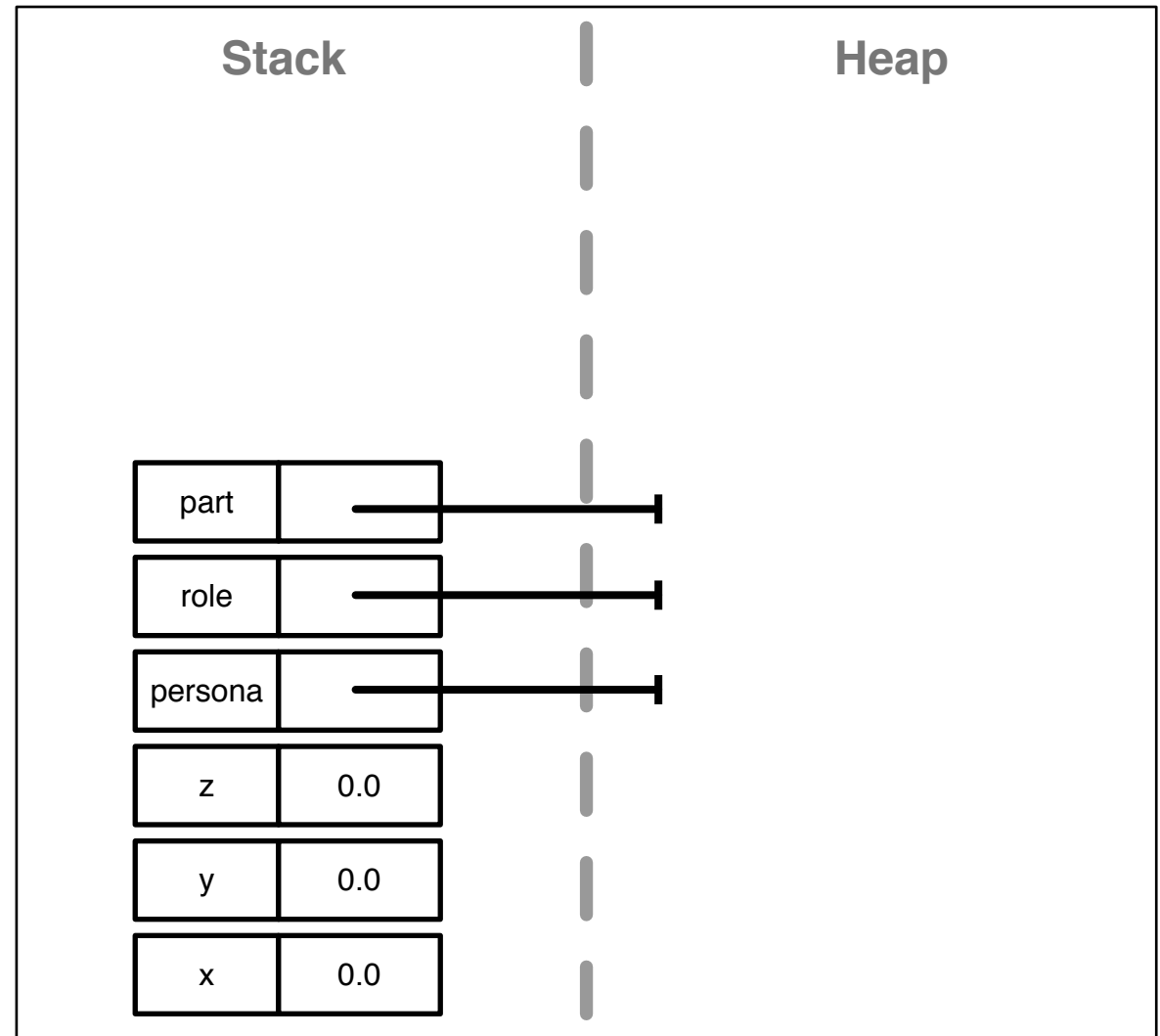
```
S.o.p(y);
```

```
S.o.p(z);
```

```
S.o.p(persona.getName());
```

```
S.o.p(role.getAge());
```

```
S.o.p(part.getName());
```



Output:

Memory Diagram - Step 4 of 16

```
double x, y, z;  
Human persona, role, part;
```

```
x = 3.1;
```

```
y = 4.2;
```

```
z = x;
```

```
persona = new Human("Leela");
```

```
role = new Human("Fry");
```

```
part = persona;
```

```
x = 8.2;
```

```
persona.setName("Hermes");
```

```
persona = new Human("Amy");
```

```
role = persona;
```

```
persona.haveBirthday();
```

```
S.o.p(x);
```

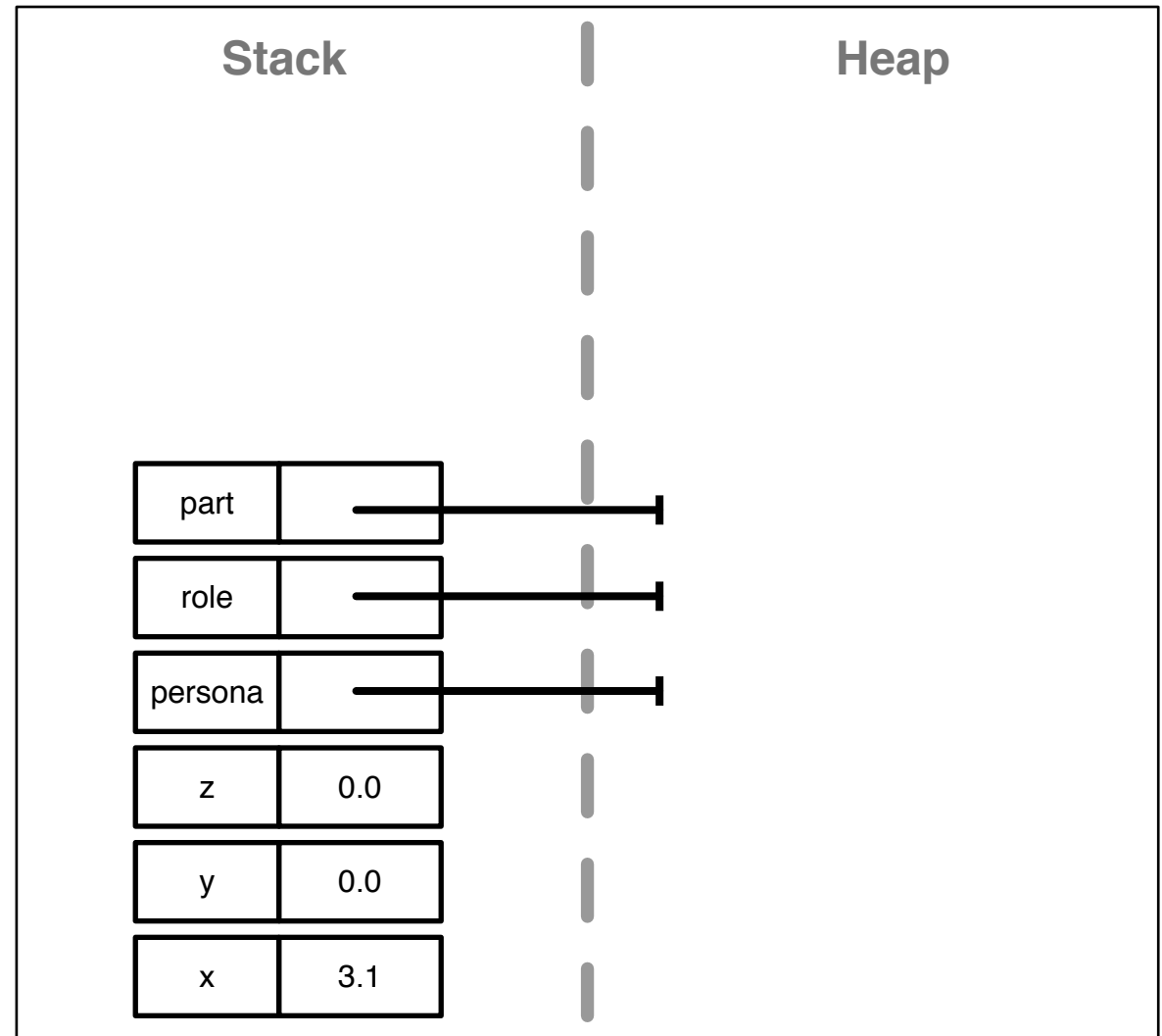
```
S.o.p(y);
```

```
S.o.p(z);
```

```
S.o.p(persona.getName());
```

```
S.o.p(role.getAge());
```

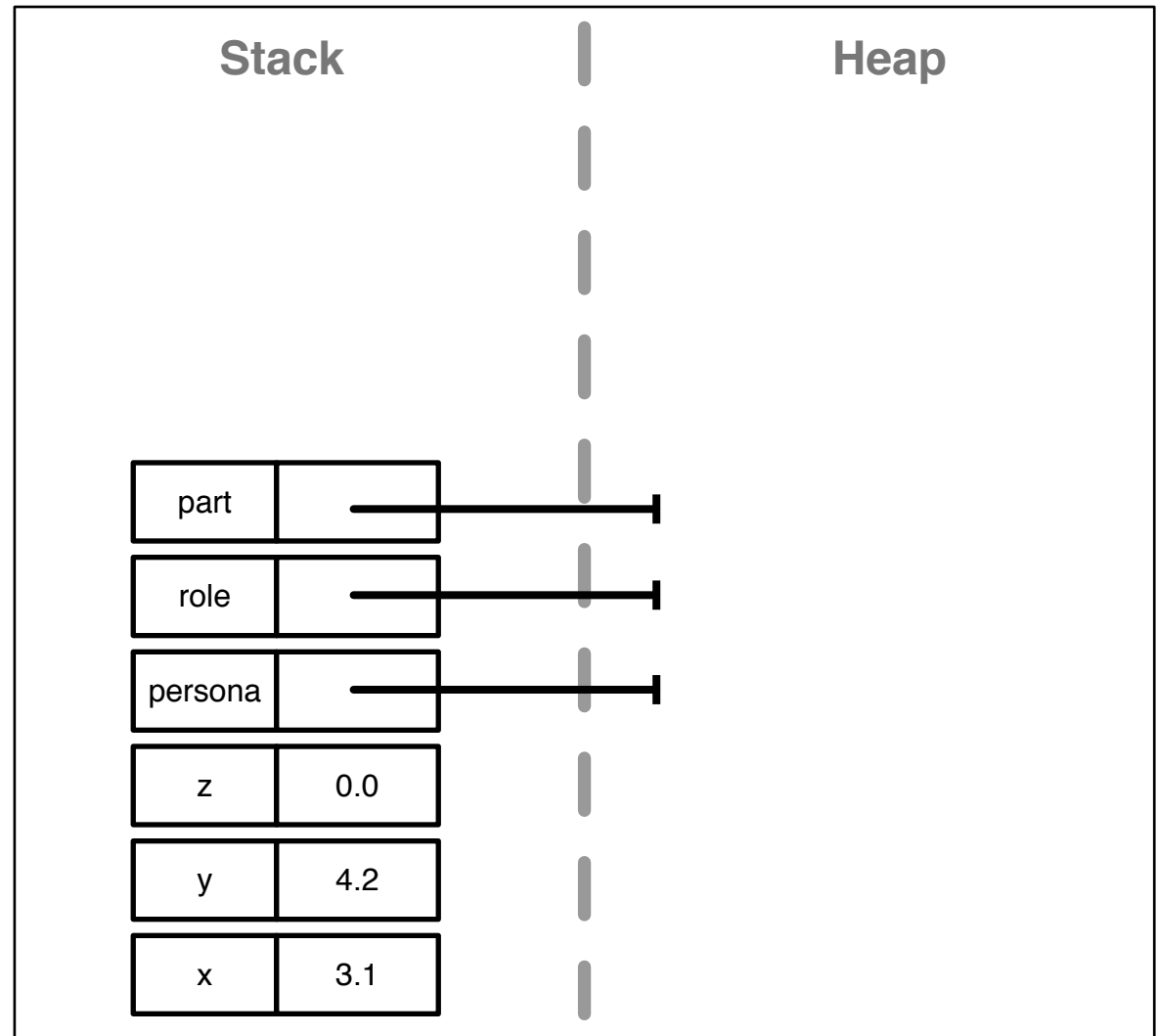
```
S.o.p(part.getName());
```



Output:

Memory Diagram - Step 5 of 16

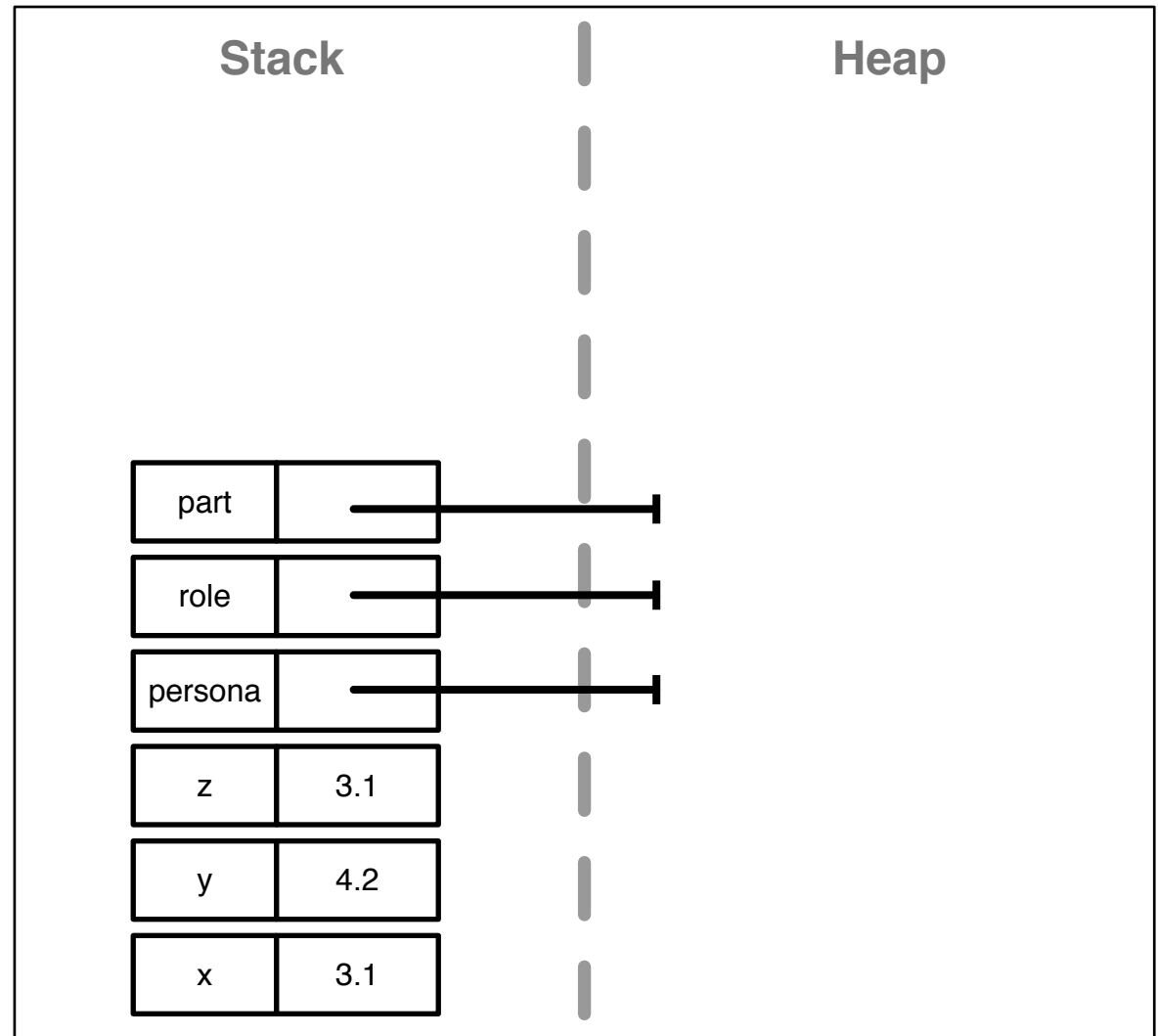
```
double x, y, z;  
Human persona, role, part;  
  
x = 3.1;  
y = 4.2;  
z = x;  
  
persona = new Human("Leela");  
role = new Human("Fry");  
part = persona;  
  
x = 8.2;  
persona.setName("Hermes");  
  
persona = new Human("Amy");  
role = persona;  
persona.haveBirthday();  
  
S.o.p(x);  
S.o.p(y);  
S.o.p(z);  
  
S.o.p(persona.getName());  
S.o.p(role.getAge());  
S.o.p(part.getName());
```



Output:

Memory Diagram - Step 6 of 16

```
double x, y, z;  
Human persona, role, part;  
  
x = 3.1;  
y = 4.2;  
z = x;  
  
persona = new Human("Leela");  
role = new Human("Fry");  
part = persona;  
  
x = 8.2;  
persona.setName("Hermes");  
  
persona = new Human("Amy");  
role = persona;  
persona.haveBirthday();  
  
S.o.p(x);  
S.o.p(y);  
S.o.p(z);  
  
S.o.p(persona.getName());  
S.o.p(role.getAge());  
S.o.p(part.getName());
```



Output:

Memory Diagram - Step 7 of 16

```
double x, y, z;  
Human persona, role, part;
```

```
x = 3.1;  
y = 4.2;  
z = x;
```

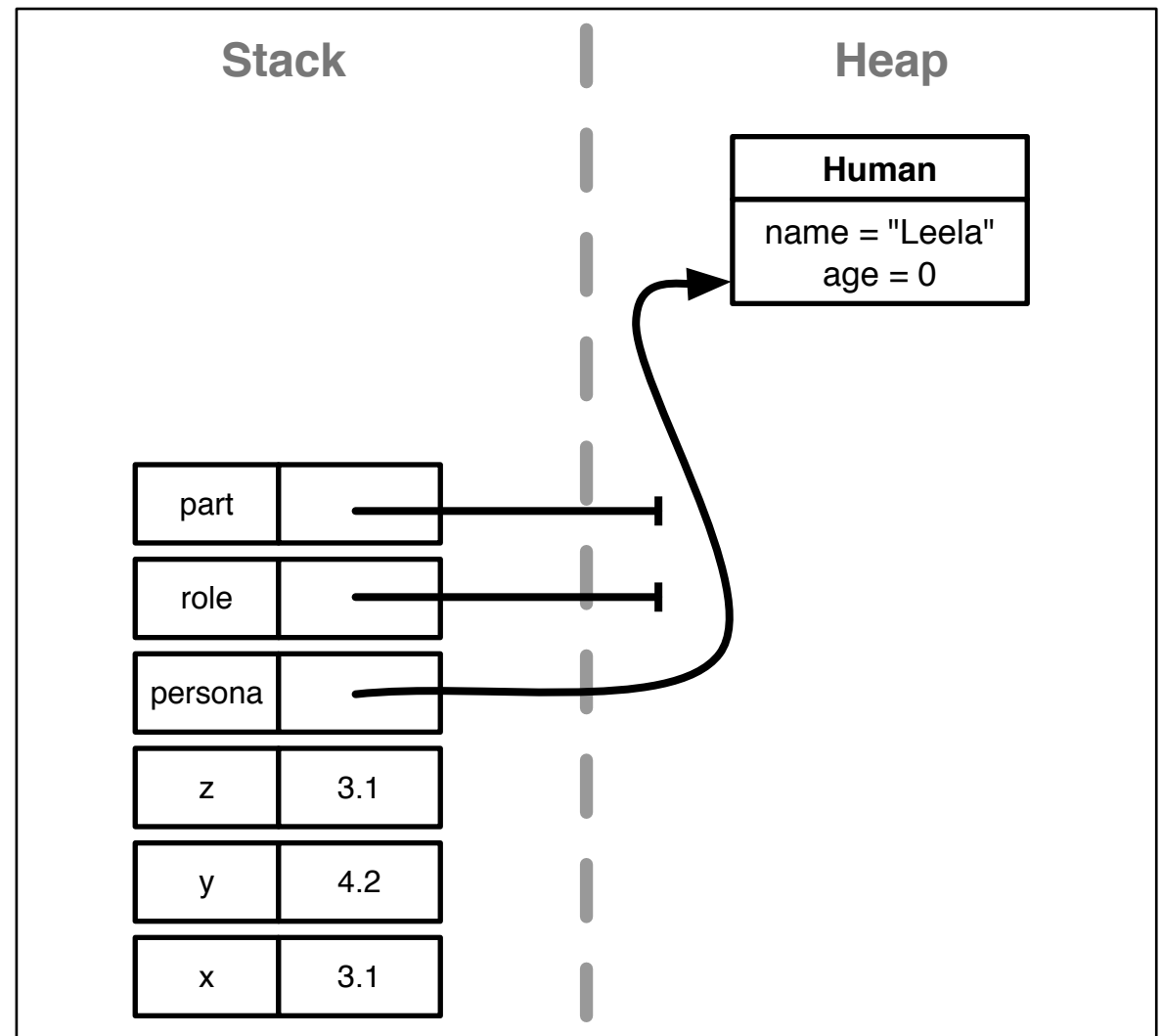
```
persona = new Human("Leela");  
role = new Human("Fry");  
part = persona;
```

```
x = 8.2;  
persona.setName("Hermes");
```

```
persona = new Human("Amy");  
role = persona;  
persona.haveBirthday();
```

```
S.o.p(x);  
S.o.p(y);  
S.o.p(z);
```

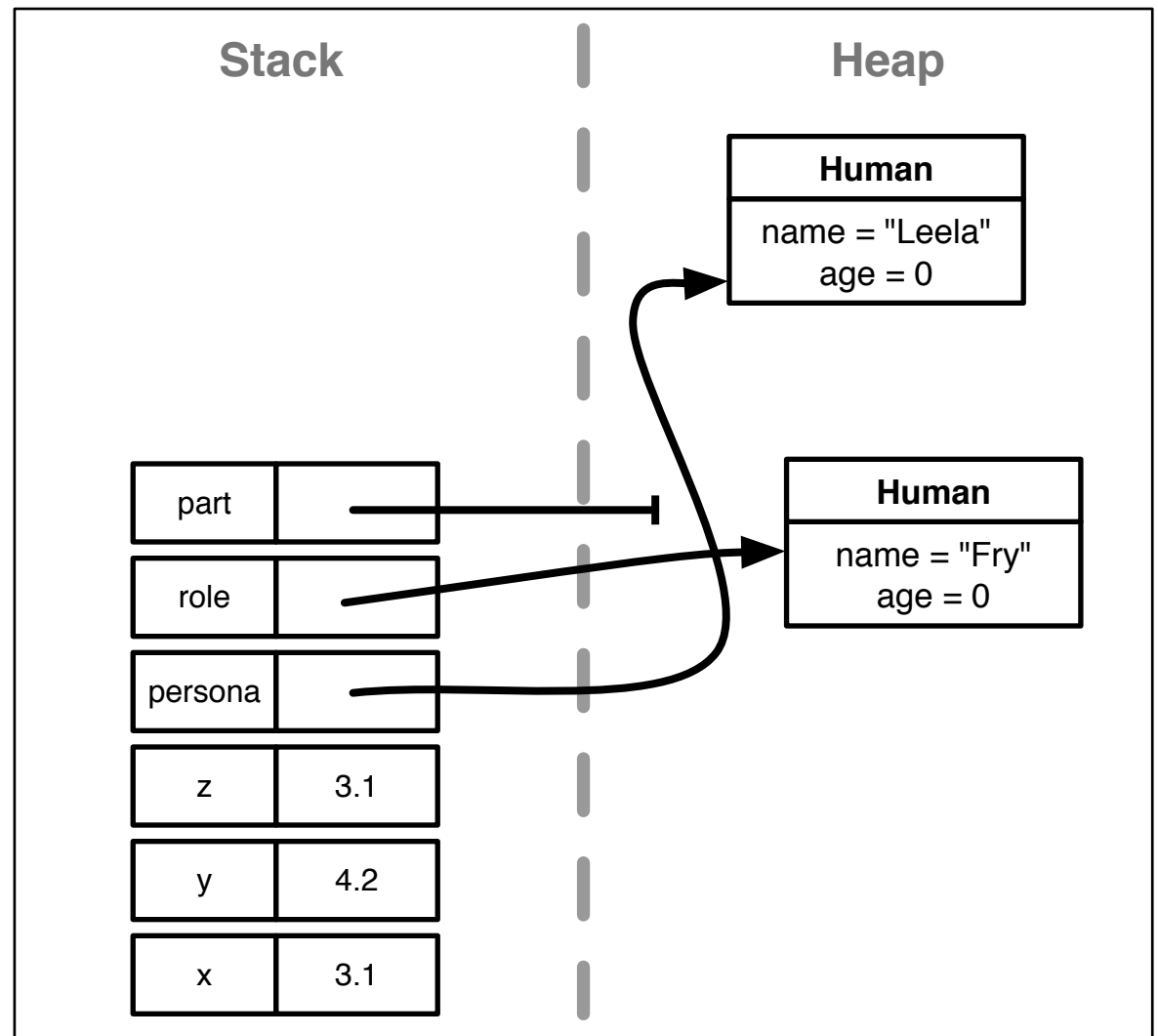
```
S.o.p(persona.getName());  
S.o.p(role.getAge());  
S.o.p(part.getName());
```



Output:

Memory Diagram - Step 8 of 16

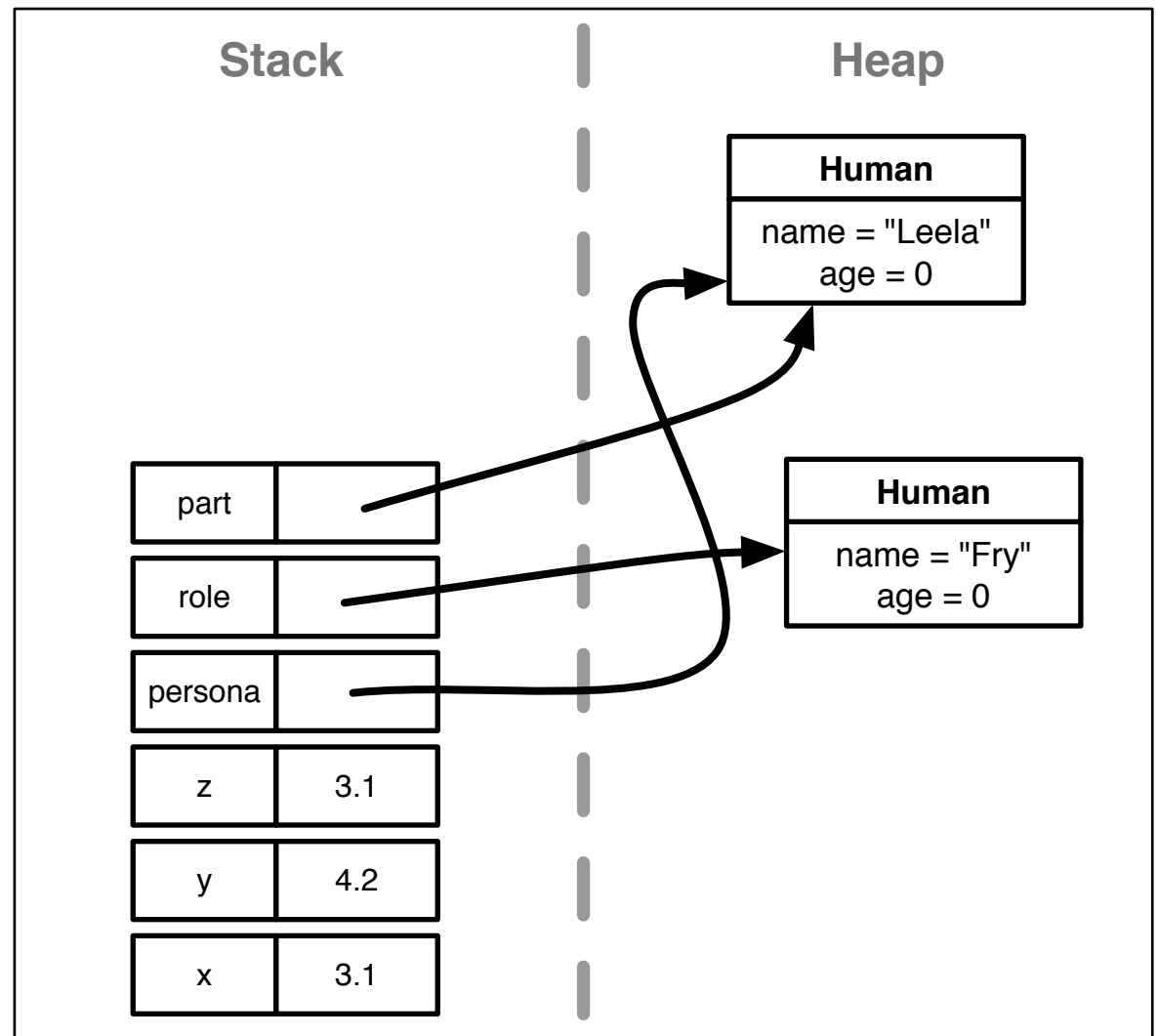
```
double x, y, z;  
Human persona, role, part;  
  
x = 3.1;  
y = 4.2;  
z = x;  
  
persona = new Human("Leela");  
role = new Human("Fry");  
part = persona;  
  
x = 8.2;  
persona.setName("Hermes");  
  
persona = new Human("Amy");  
role = persona;  
persona.haveBirthday();  
  
S.o.p(x);  
S.o.p(y);  
S.o.p(z);  
  
S.o.p(persona.getName());  
S.o.p(role.getAge());  
S.o.p(part.getName());
```



Output:

Memory Diagram - Step 9 of 16

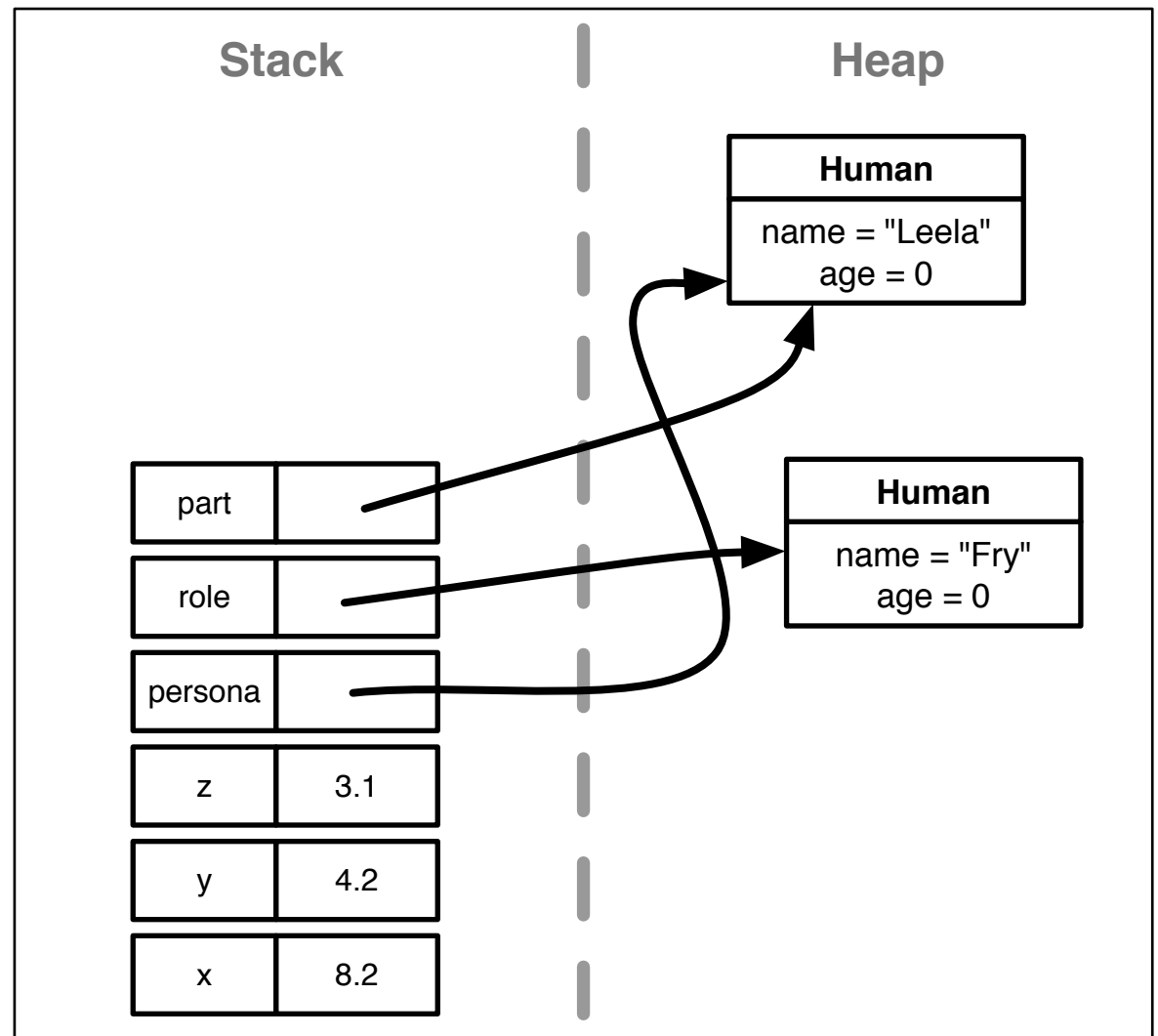
```
double x, y, z;  
Human persona, role, part;  
  
x = 3.1;  
y = 4.2;  
z = x;  
  
persona = new Human("Leela");  
role = new Human("Fry");  
part = persona;  
  
x = 8.2;  
persona.setName("Hermes");  
  
persona = new Human("Amy");  
role = persona;  
persona.haveBirthday();  
  
S.o.p(x);  
S.o.p(y);  
S.o.p(z);  
  
S.o.p(persona.getName());  
S.o.p(role.getAge());  
S.o.p(part.getName());
```



Output:

Memory Diagram - Step 10 of 16

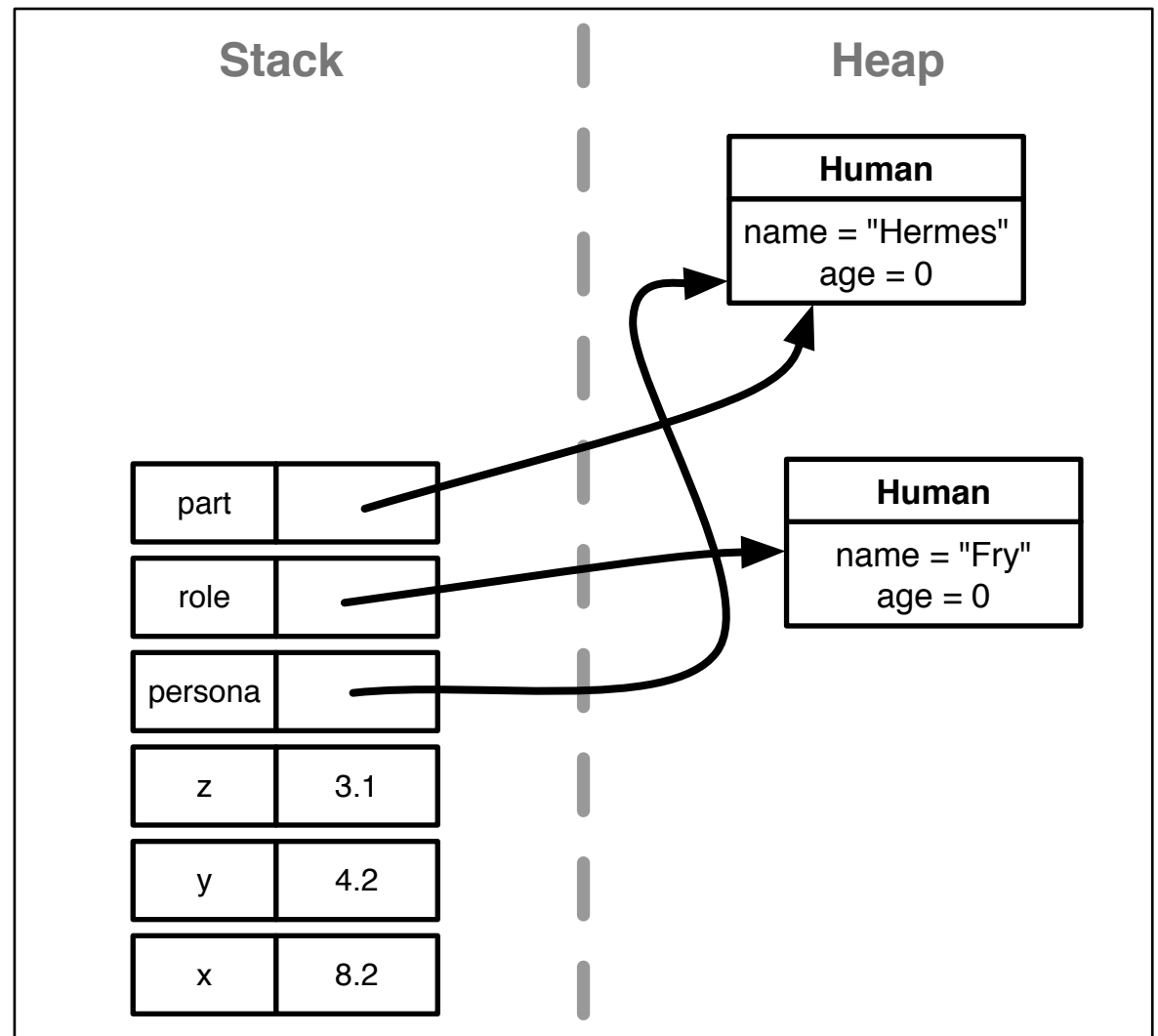
```
double x, y, z;  
Human persona, role, part;  
  
x = 3.1;  
y = 4.2;  
z = x;  
  
persona = new Human("Leela");  
role = new Human("Fry");  
part = persona;  
  
x = 8.2;  
persona.setName("Hermes");  
  
persona = new Human("Amy");  
role = persona;  
persona.haveBirthday();  
  
S.o.p(x);  
S.o.p(y);  
S.o.p(z);  
  
S.o.p(persona.getName());  
S.o.p(role.getAge());  
S.o.p(part.getName());
```



Output:

Memory Diagram - Step 11 of 16

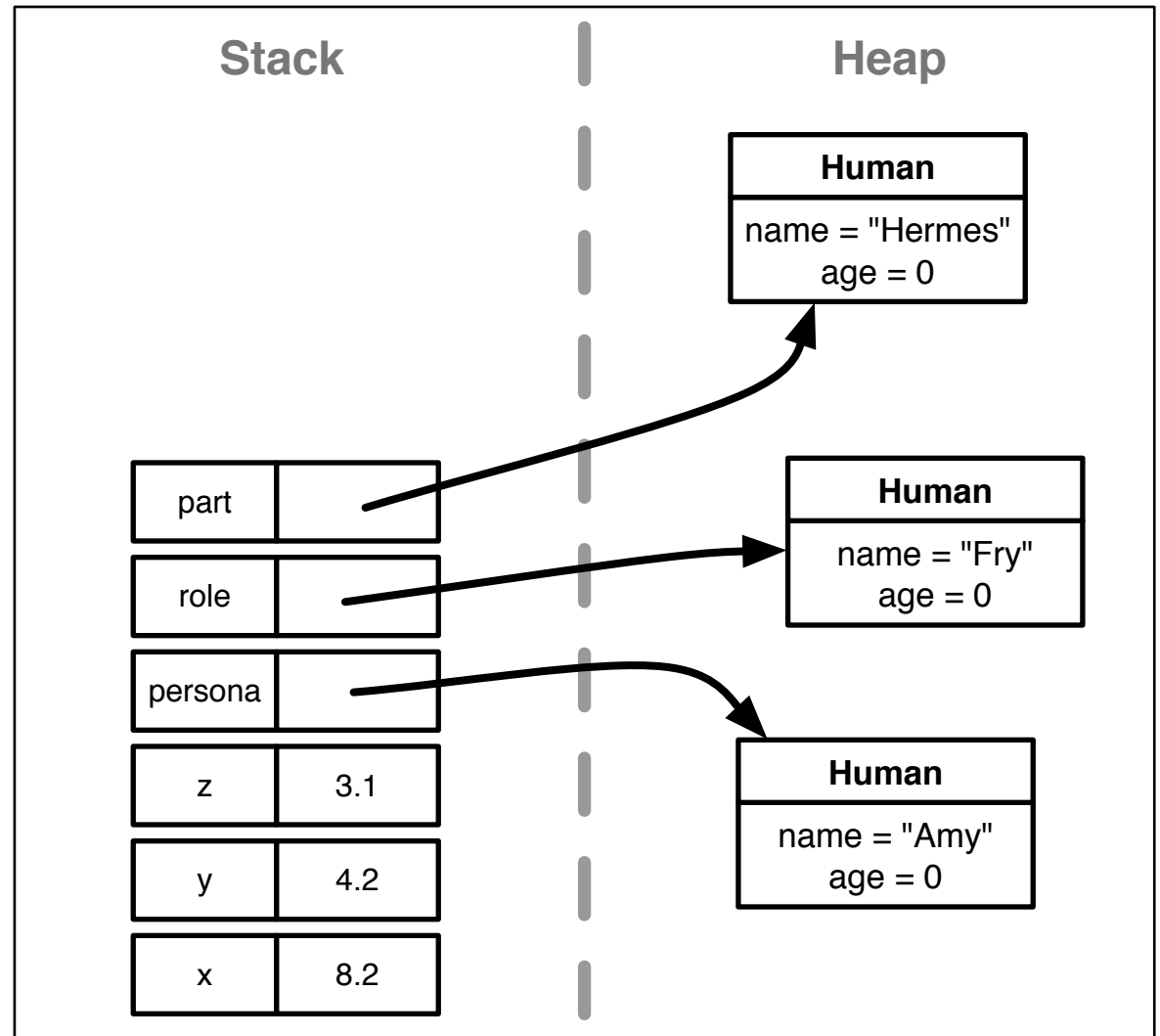
```
double x, y, z;  
Human persona, role, part;  
  
x = 3.1;  
y = 4.2;  
z = x;  
  
persona = new Human("Leela");  
role = new Human("Fry");  
part = persona;  
  
x = 8.2;  
persona.setName("Hermes");  
  
persona = new Human("Amy");  
role = persona;  
persona.haveBirthday();  
  
S.o.p(x);  
S.o.p(y);  
S.o.p(z);  
  
S.o.p(persona.getName());  
S.o.p(role.getAge());  
S.o.p(part.getName());
```



Output:

Memory Diagram - Step 12 of 16

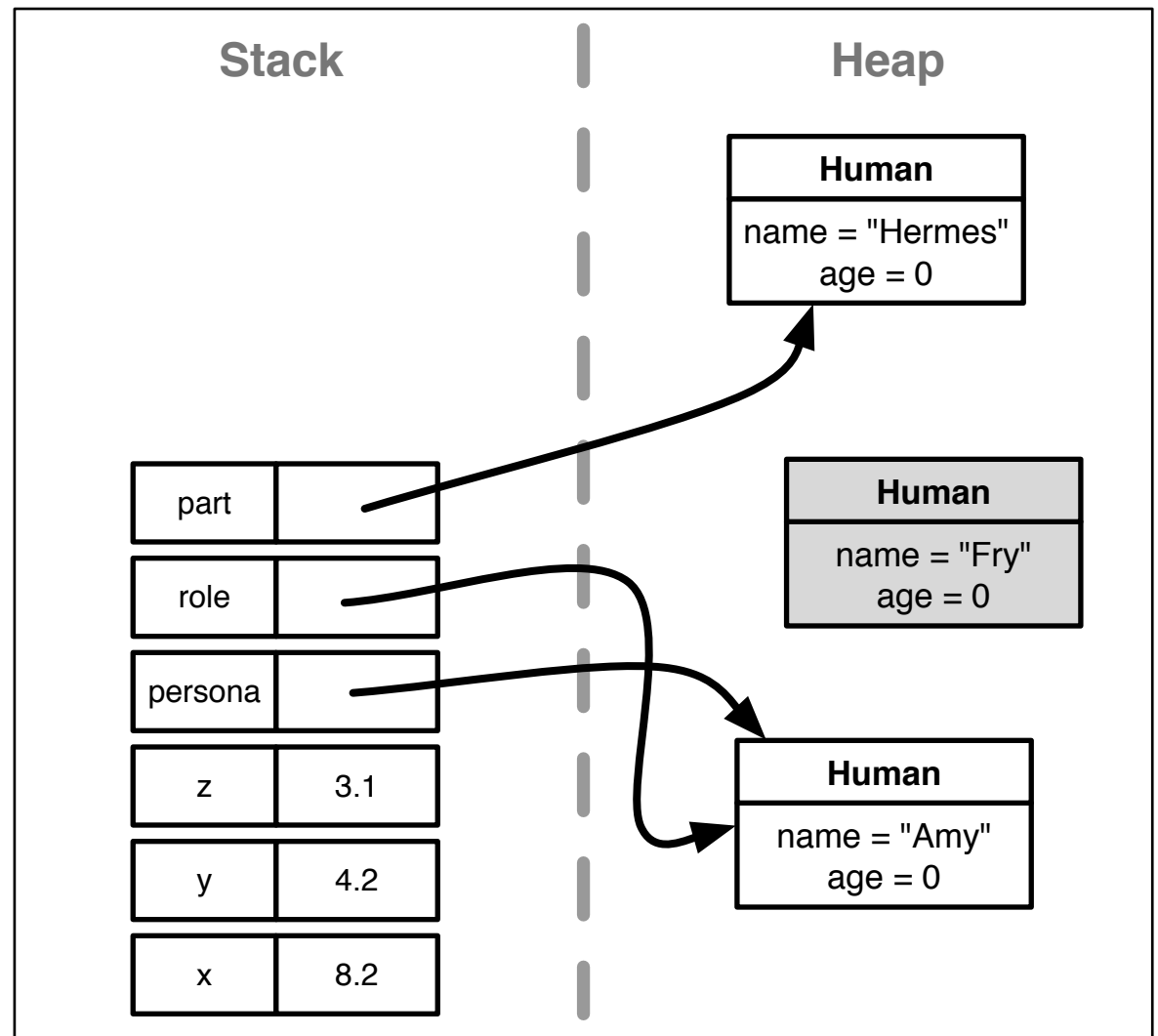
```
double x, y, z;  
Human persona, role, part;  
  
x = 3.1;  
y = 4.2;  
z = x;  
  
persona = new Human("Leela");  
role = new Human("Fry");  
part = persona;  
  
x = 8.2;  
persona.setName("Hermes");  
  
persona = new Human("Amy");  
role = persona;  
persona.haveBirthday();  
  
S.o.p(x);  
S.o.p(y);  
S.o.p(z);  
  
S.o.p(persona.getName());  
S.o.p(role.getAge());  
S.o.p(part.getName());
```



Output:

Memory Diagram - Step 13 of 16

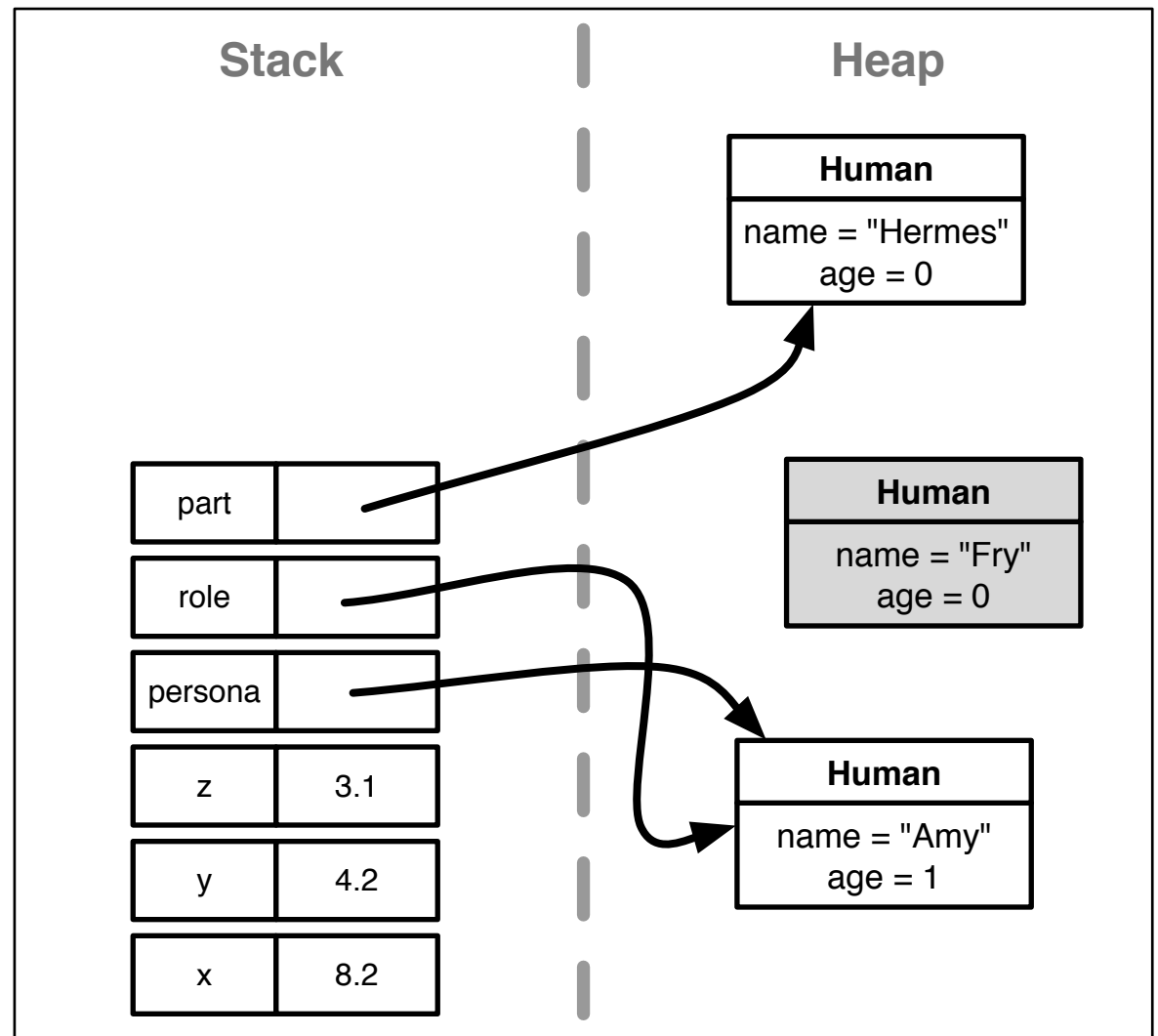
```
double x, y, z;  
Human persona, role, part;  
  
x = 3.1;  
y = 4.2;  
z = x;  
  
persona = new Human("Leela");  
role = new Human("Fry");  
part = persona;  
  
x = 8.2;  
persona.setName("Hermes");  
  
persona = new Human("Amy")  
role = persona;  
persona.haveBirthday();  
  
S.o.p(x);  
S.o.p(y);  
S.o.p(z);  
  
S.o.p(persona.getName());  
S.o.p(role.getAge());  
S.o.p(part.getName());
```



Output:

Memory Diagram - Step 14 of 16

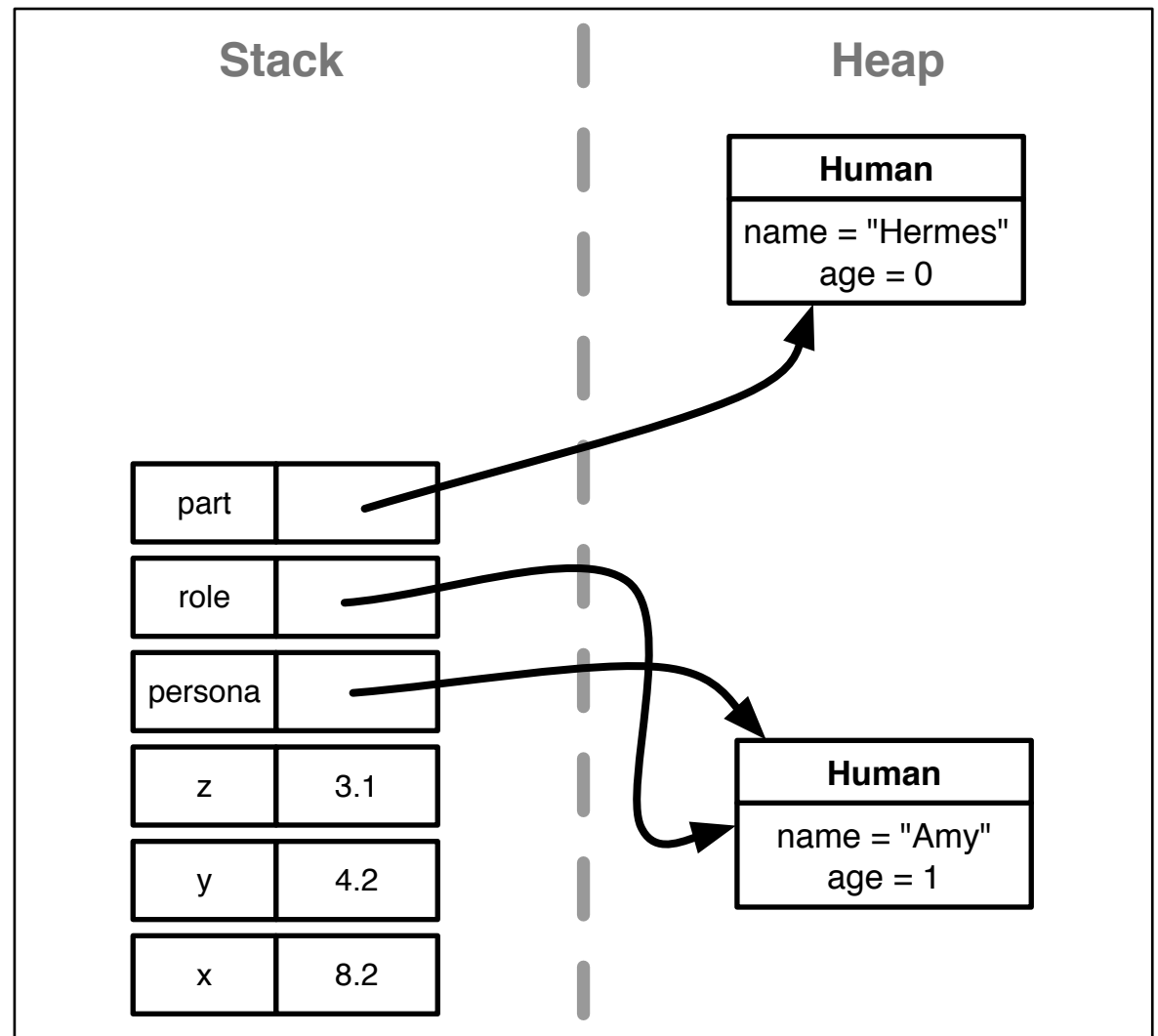
```
double x, y, z;  
Human persona, role, part;  
  
x = 3.1;  
y = 4.2;  
z = x;  
  
persona = new Human("Leela");  
role = new Human("Fry");  
part = persona;  
  
x = 8.2;  
persona.setName("Hermes");  
  
persona = new Human("Amy")  
role = persona;  
persona.haveBirthday();  
  
S.o.p(x);  
S.o.p(y);  
S.o.p(z);  
  
S.o.p(persona.getName());  
S.o.p(role.getAge());  
S.o.p(part.getName());
```



Output:

Memory Diagram - Step 15 of 16

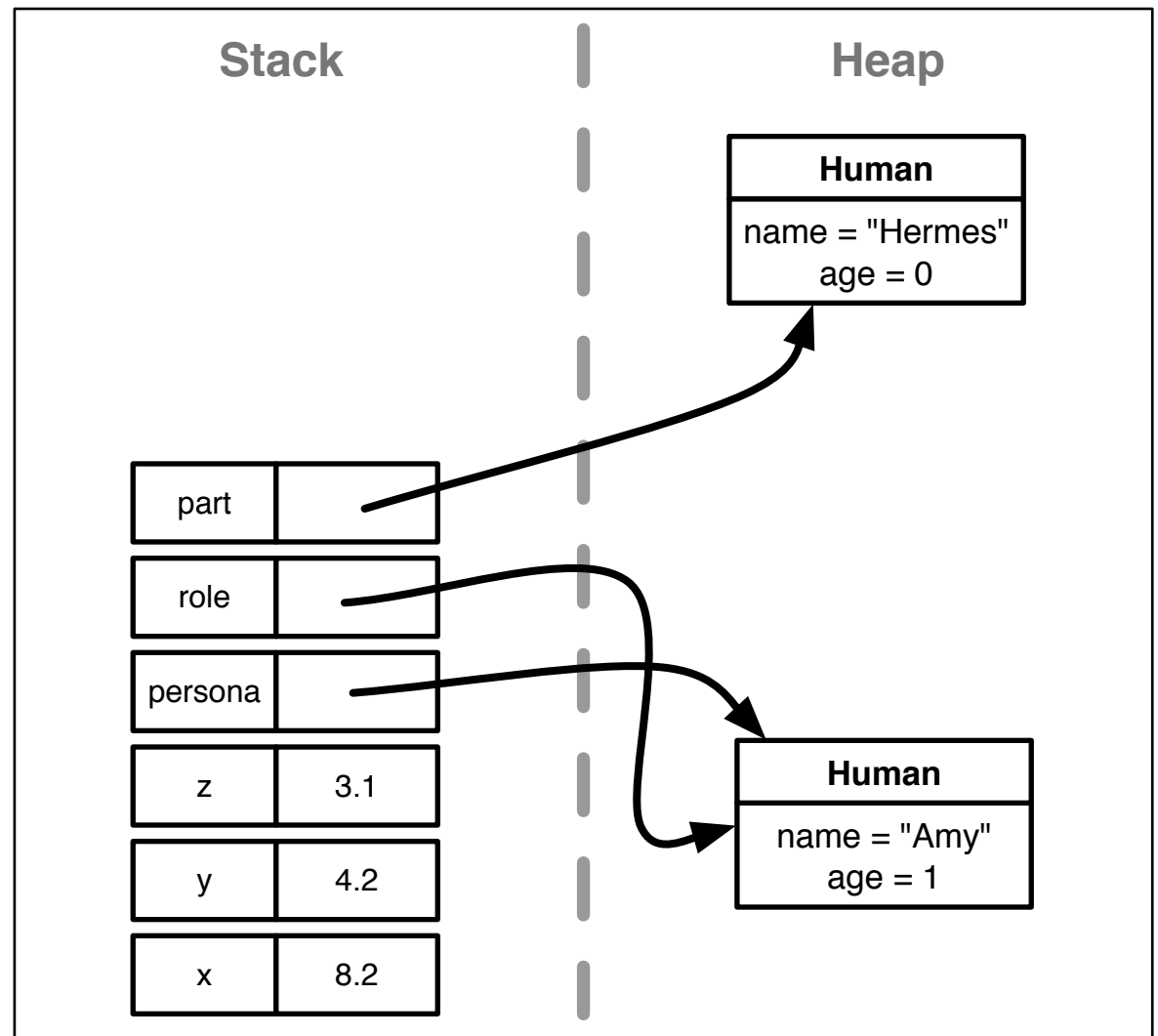
```
double x, y, z;  
Human persona, role, part;  
  
x = 3.1;  
y = 4.2;  
z = x;  
  
persona = new Human("Leela");  
role = new Human("Fry");  
part = persona;  
  
x = 8.2;  
persona.setName("Hermes");  
  
persona = new Human("Amy")  
role = persona;  
persona.haveBirthday();  
  
S.o.p(x);  
S.o.p(y);  
S.o.p(z);  
  
S.o.p(persona.getName());  
S.o.p(role.getAge());  
S.o.p(part.getName());
```



Output:
8.2
4.2
3.1

Memory Diagram - Step 16 of 16

```
double x, y, z;  
Human persona, role, part;  
  
x = 3.1;  
y = 4.2;  
z = x;  
  
persona = new Human("Leela");  
role = new Human("Fry");  
part = persona;  
  
x = 8.2;  
persona.setName("Hermes");  
  
persona = new Human("Amy")  
role = persona;  
persona.haveBirthday();  
  
S.o.p(x);  
S.o.p(y);  
S.o.p(z);  
  
S.o.p(persona.getName());  
S.o.p(role.getAge());  
S.o.p(part.getName());
```



Output:

```
8.2  
4.2  
3.1  
Amy  
1  
Hermes
```