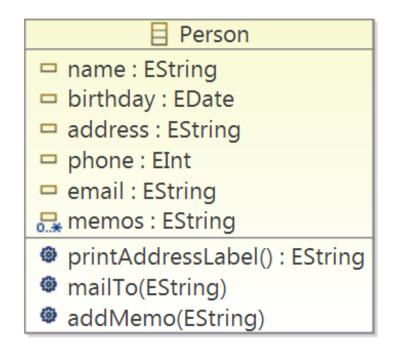
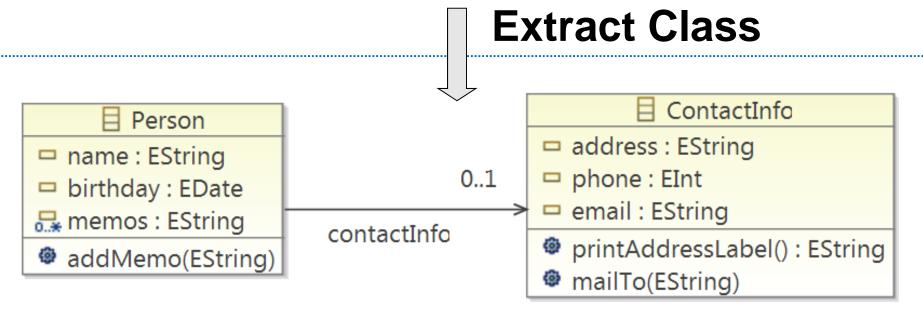
Parameter-Listen für Multi-Regeln

Manuel Ohrndorf Praktische Informatik Universität Siegen

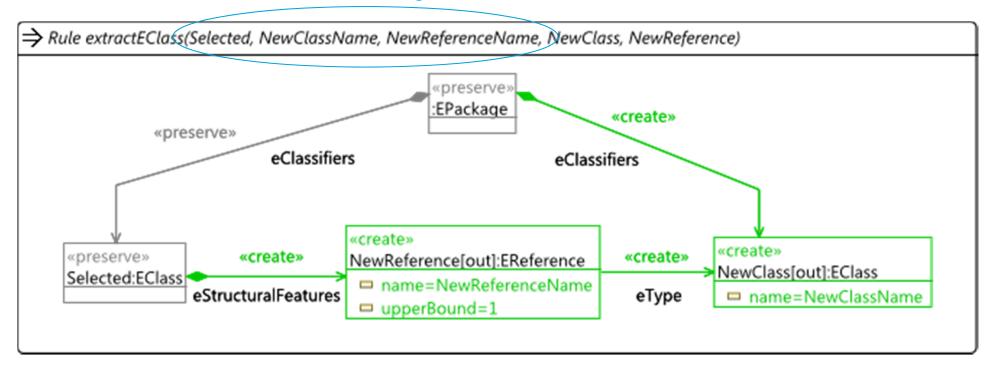
Motivation

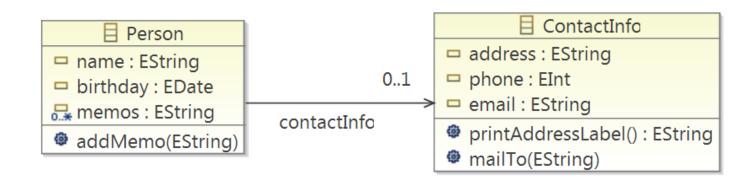




Henshin Transformation – Kernel-Regel

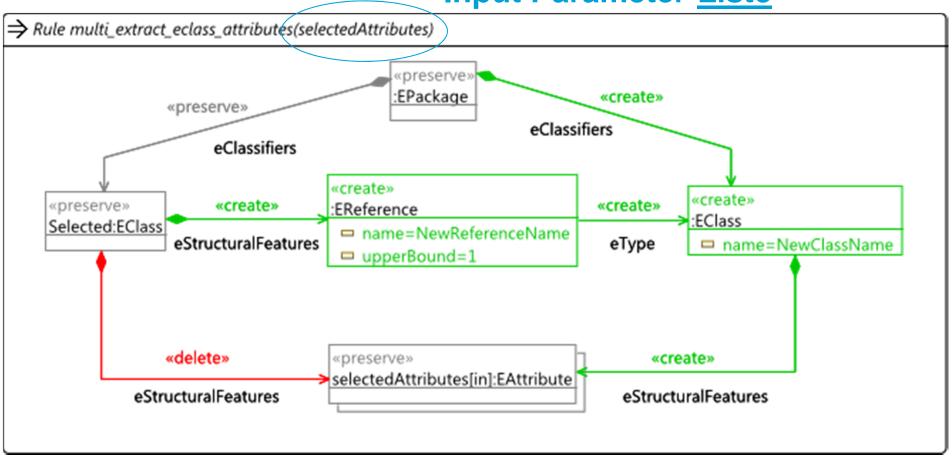
Input Parameter

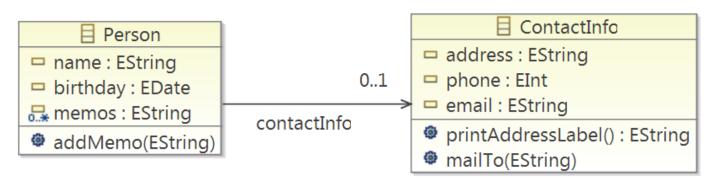




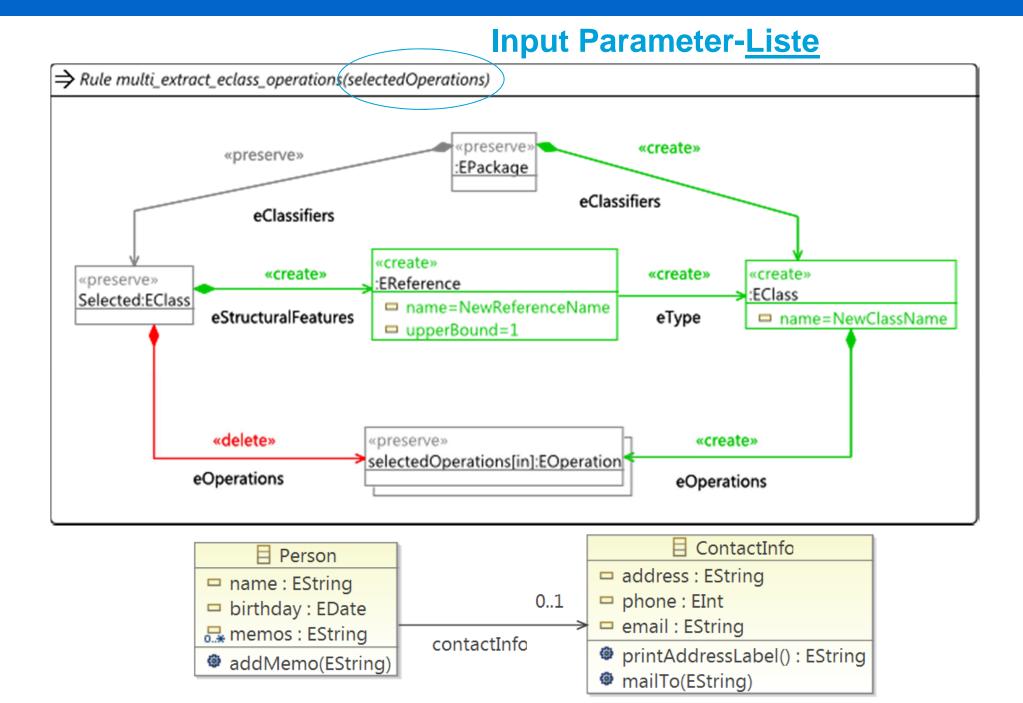
Henshin Transformation – Multi-Regel

Input Parameter-Liste

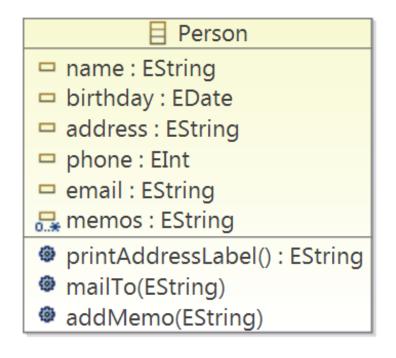


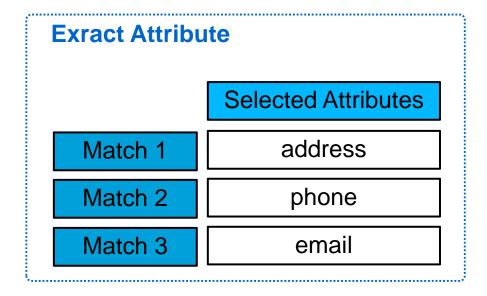


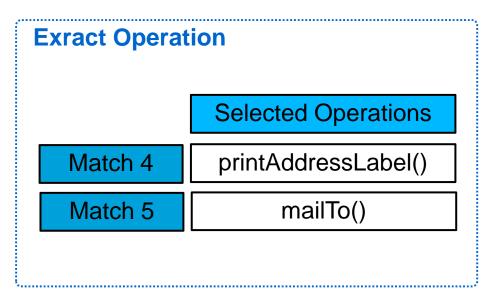
Henshin Transformation – Multi-Regel



Ausführen der Regeln





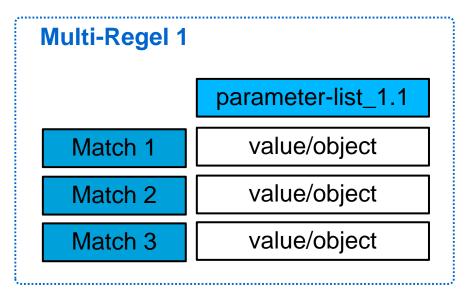


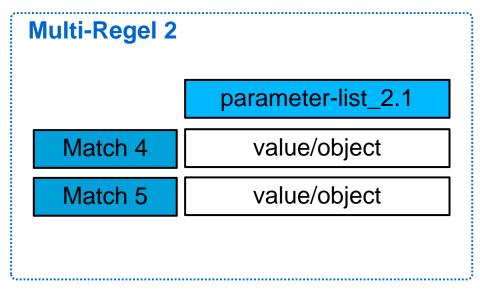
amalgamation-unit(unit-para_1, ..., unit-para_n)
 kernel-regel(rule-para_1, ..., rule-para_i)
 multi-regel_1(multi-para_1.1, ..., multi-para_1.j)
 ...
 multi-regel_m(multi-para_m.1, ..., multi-para_m.k)
 mapping<unit-para -> rule-para | multi-para>
 rule-para ∈ {value, object}

Grundlegende Semantik bleibt erhalten:

multi-para ∈ {value, object, **list**}

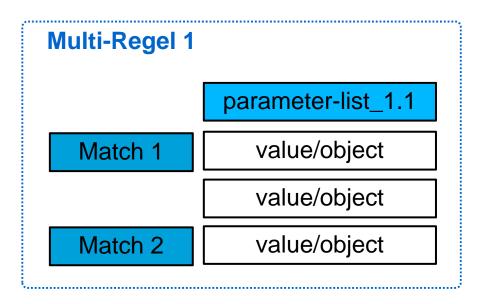
Eine Amalgamation-Unit ist anwendbar, wenn die Kern-Regel anwendbar ist.





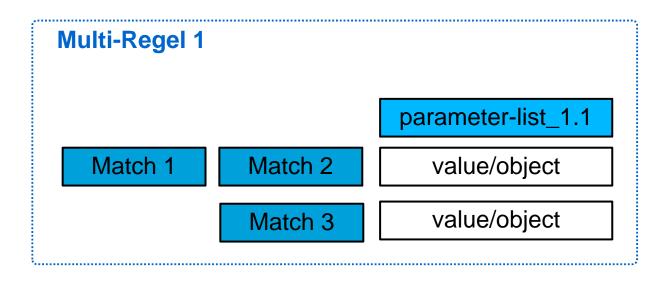
```
    amalgamation-unit(unit-para_1, ..., unit-para_n)
    kernel-regel(rule-para_1, ..., rule-para_i)
    multi-regel_1(multi-para_1.1, ..., multi-para_1.j)
    ...
    multi-regel_m(multi-para_m.1, ..., multi-para_m.k)
    mapping<unit-para -> rule-para | multi-para>
    rule-para ∈ {value, object}
    multi-para ∈ {value, object, list}
```

Kein Match für einen einzelnen Parameterwert.



```
    amalgamation-unit(unit-para_1, ..., unit-para_n)
    kernel-regel(rule-para_1, ..., rule-para_i)
    multi-regel_1(multi-para_1.1, ..., multi-para_1.j)
    ...
    multi-regel_m(multi-para_m.1, ..., multi-para_m.k)
    mapping<unit-para -> rule-para | multi-para>
    rule-para ∈ {value, object}
    multi-para ∈ {value, object, list}
```

Mehrere Matches für einen einzelnen Parameterwert.



amalgamation-unit(unit-para_1, ..., unit-para_n)
kernel-regel(rule-para_1, ..., rule-para_i)
multi-regel_1(multi-para_1.1, ..., multi-para_1.j)
...
multi-regel_m(multi-para_m.1, ..., multi-para_m.k)
mapping<unit-para -> rule-para | multi-para>
rule-para ∈ {value, object}
multi-para ∈ {value, object, list}

Fehlende Parameterwerte.

Multi-Regel 1			
	parameter-list_1.1	parameter-list_1.2	parameter-list_1.3
Match 1	value object	value object	Х
Match 2	value object	value object	Х
Match 3	value object	X	Х

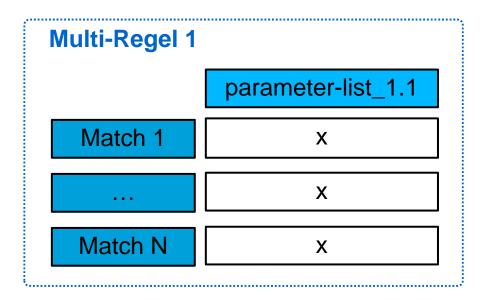
amalgamation-unit(unit-para_1, ..., unit-para_n)
kernel-regel(rule-para_1, ..., rule-para_i)
multi-regel_1(multi-para_1.1, ..., multi-para_1.j)
...
multi-regel_m(multi-para_m.1, ..., multi-para_m.k)
mapping<unit-para -> rule-para | multi-para>
rule-para ∈ {value, object}
multi-para ∈ {value, object, list}

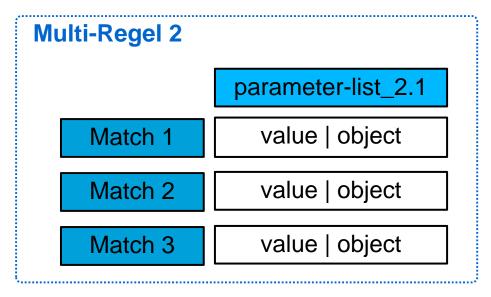
Normales Amalgamation-Unit Verhalten.

Multi-Regel 1			
	parameter-list_1.1	parameter-list_1.2	parameter-list_1.3
Match 1	Х	Х	Х
	Х	Х	Х
Match N	X	X	X

```
amalgamation-unit(unit-para_1, ..., unit-para_n)
kernel-regel(rule-para_1, ..., rule-para_i)
multi-regel_1(multi-para_1.1, ..., multi-para_1.j)
...
multi-regel_m(multi-para_m.1, ..., multi-para_m.k)
mapping<unit-para -> rule-para | multi-para>
rule-para ∈ {value, object}
multi-para ∈ {value, object, list}
```

Normales Amalgamation-Unit Verhalten & Parameter-Listen.





Hands on...

...Live Demo