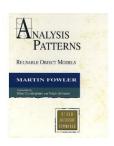


#### **Analysis Patterns**

## PV167 Project in Object-oriented Design of Information Systems



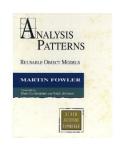
#### **Analysis Patterns**

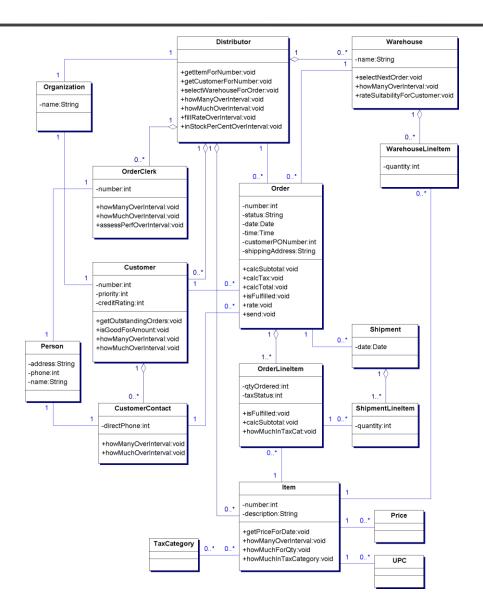


- - Accountability
  - Observations and Measurements
  - Observations for Corporate Finance
  - Referring to Objects
  - Inventory and Accounting
  - Planning
  - Trading
  - Derivative Contracts
  - Trading Packages

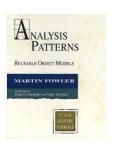


#### Case Study: Ollie's Order Center







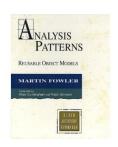


#### **Analysis Patterns**

Part 1/2



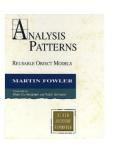
#### **Studied patterns**

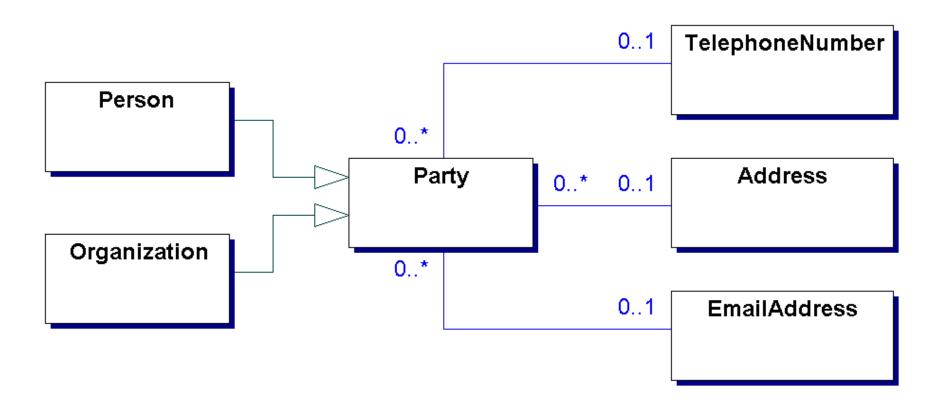


- ♦ Accountability
  - Party pattern
  - Accountability pattern
- ♦ Observations and Measurements
  - Quantity pattern
  - Conversion Ratio pattern
- ♦ Observations for Corporate Finance
  - Enterprise Segment pattern
- ♦ Referring to Objects
  - Name pattern
  - Identification Scheme pattern



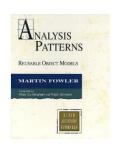
#### **Accountability – Party pattern**

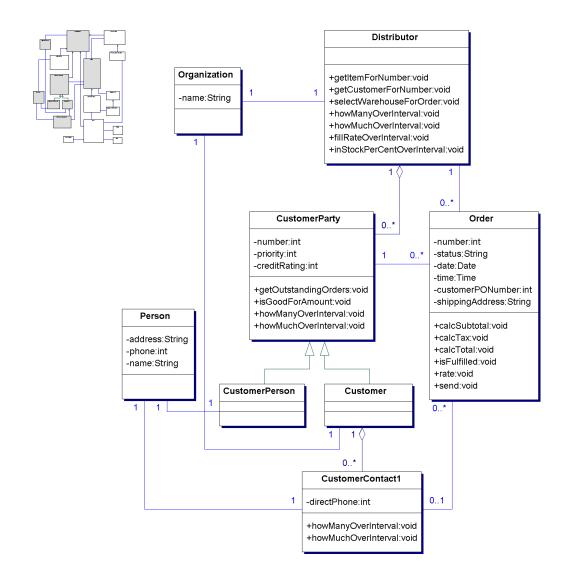






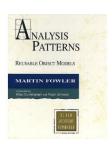
#### Ollie's Order Center: Party pattern

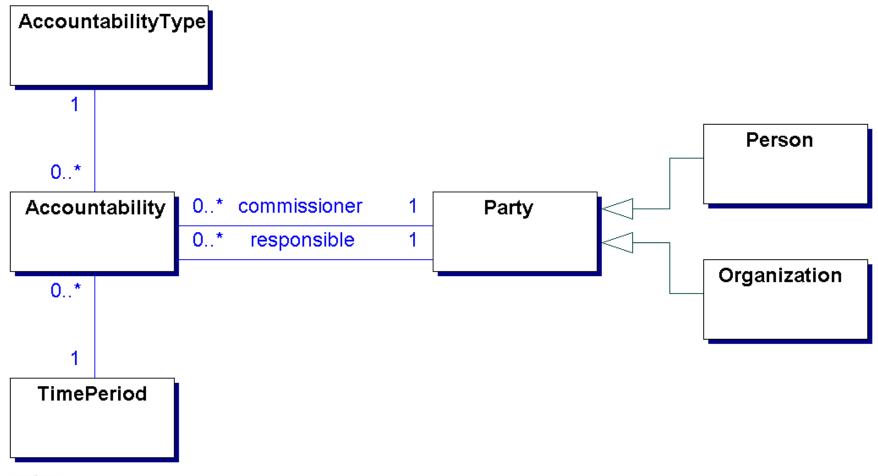






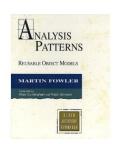
#### Accountability – Accountability pattern

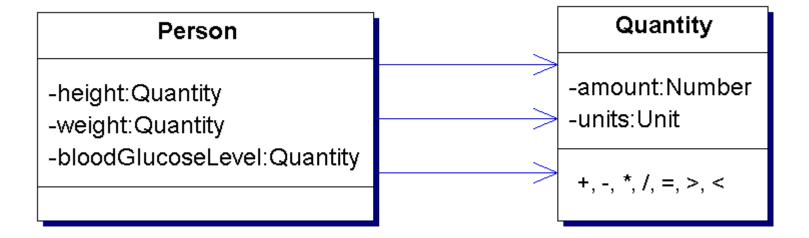






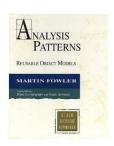
## **Observations and Measurements – Quantity pattern**

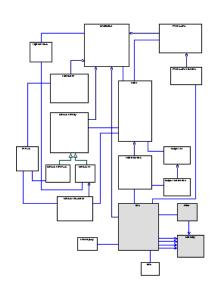


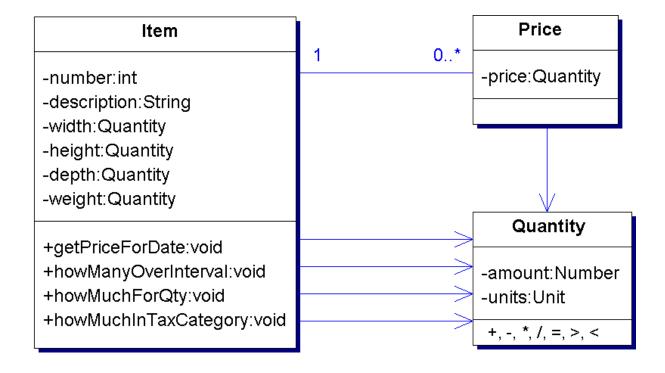




#### Ollie's Order Center: Quantity pattern

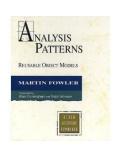








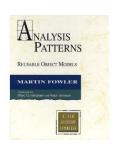
## Observations and Measurements – Conversion Ratio pattern

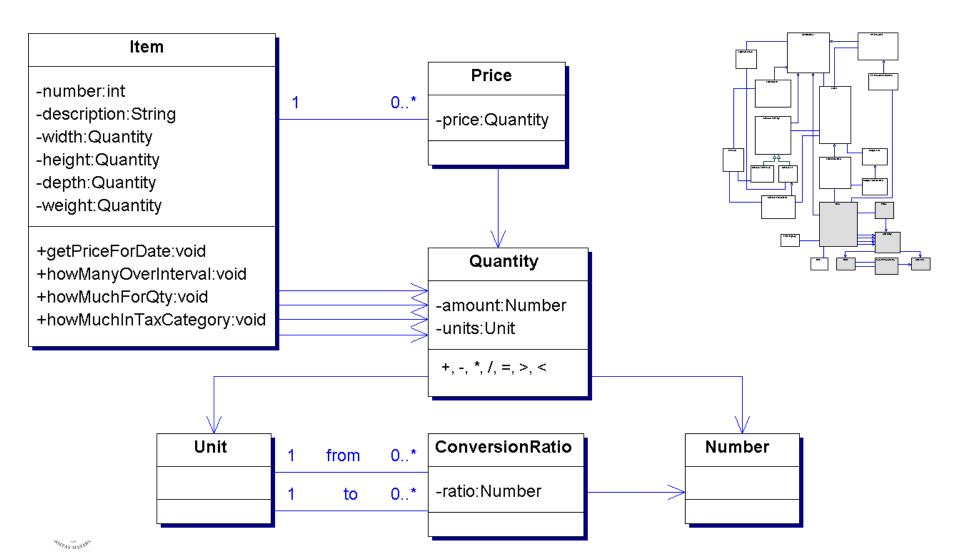


Unit	1	from	0*	ConversionRatio	0* 1	Number
	1	to	0*	-ratio:Number	>	

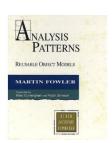


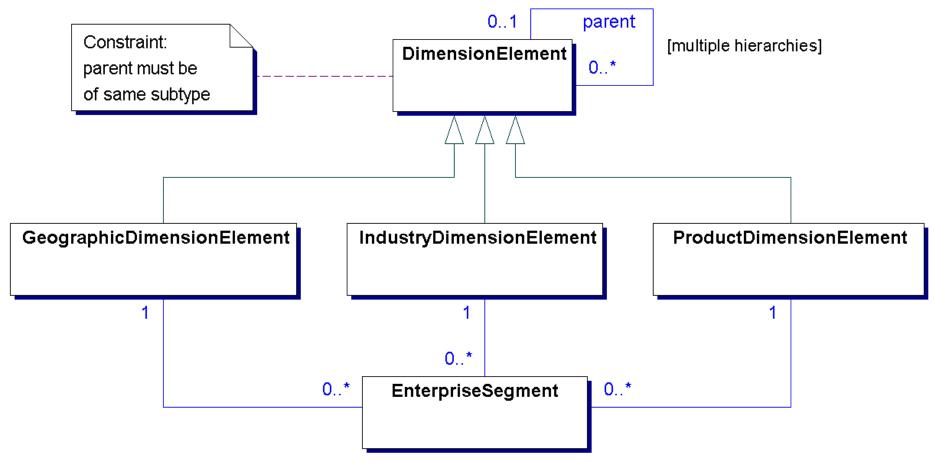
#### Ollie's Order Center: Conversion Ratio pattern





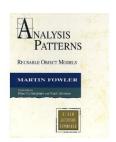
## Observations for Corporate Finance – Enterprise Segment pattern

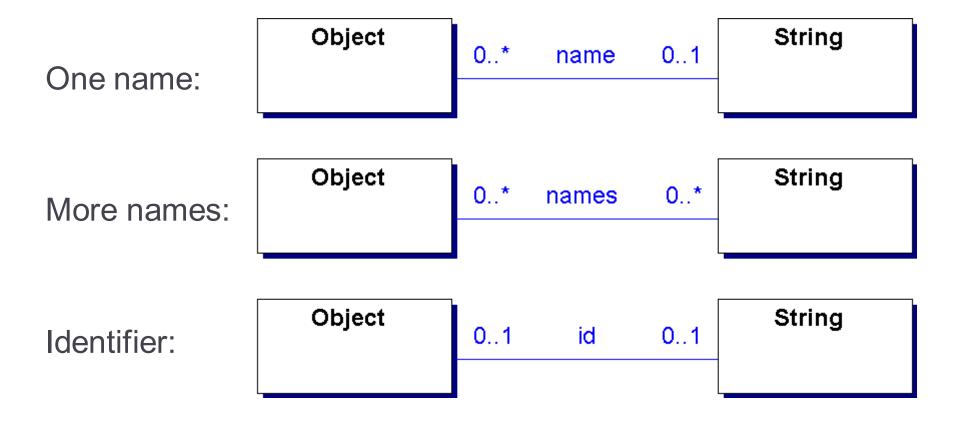






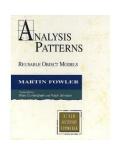
#### Referring to Objects – Name pattern

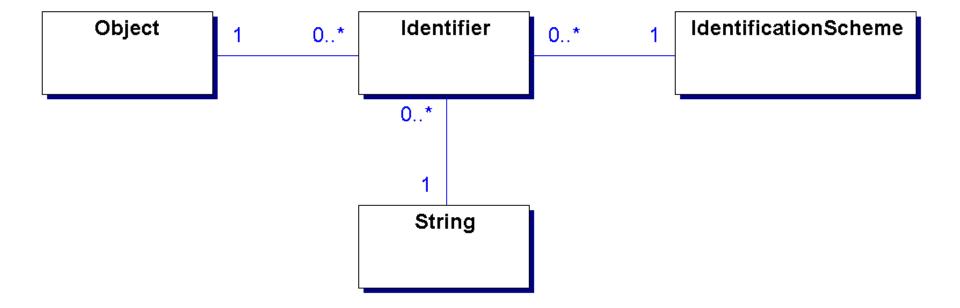






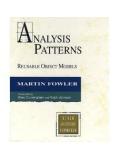
## Referring to Objects – Identification Scheme pattern

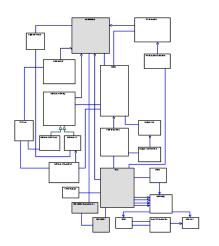


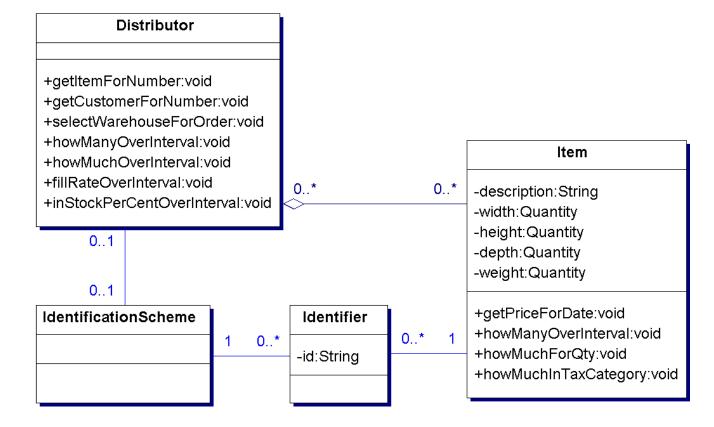




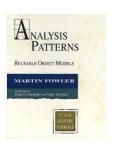
## Ollie's Order Center: Identification Scheme pattern









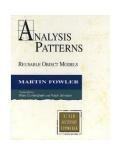


#### **Analysis Patterns**

Part 2/2



#### **Studied patterns**



#### ♦ Inventory and Accounting

- Account pattern
- Transactions pattern

#### ♦ Planning

- Proposed and Implemented Action pattern
- Completed and Abandoned Actions pattern

#### ♦ Trading

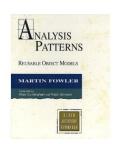
- Contract pattern
- Portfolio pattern

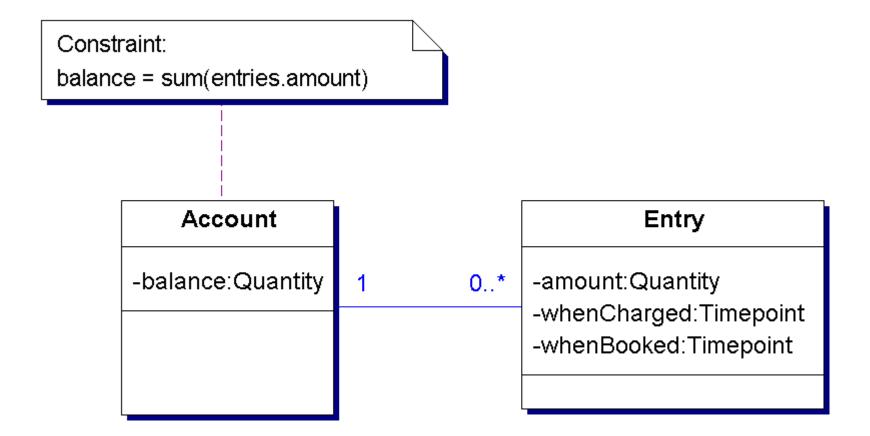
#### ♦ Derivative Contracts

Forward Contracts pattern



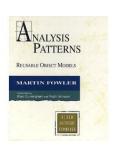
#### Inventory and Accounting – Account pattern

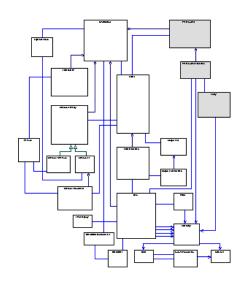


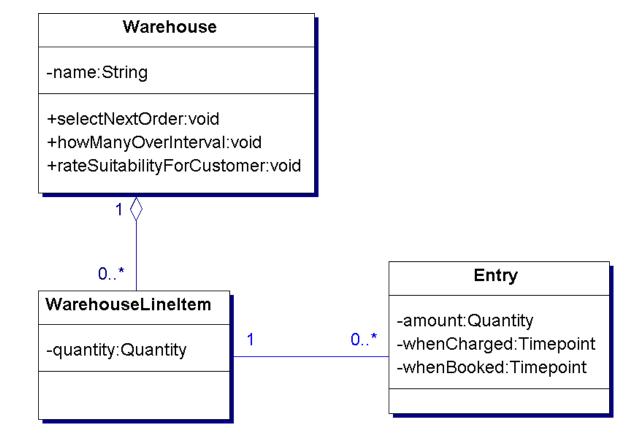




#### Ollie's Order Center: Account pattern

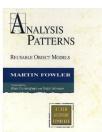


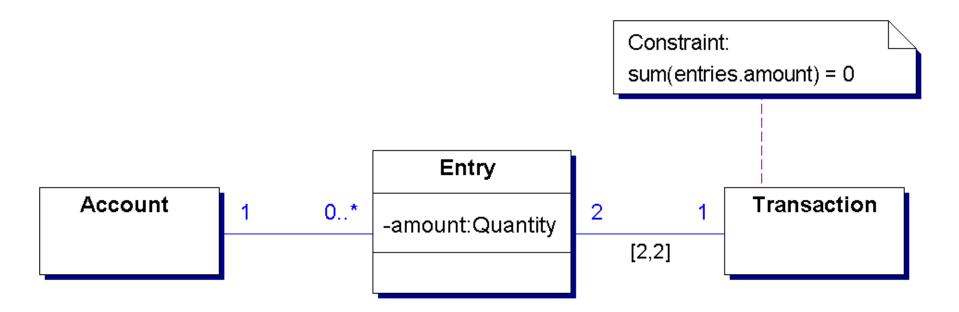






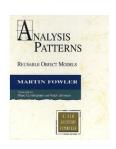
#### Inventory and Accounting – Transactions pattern

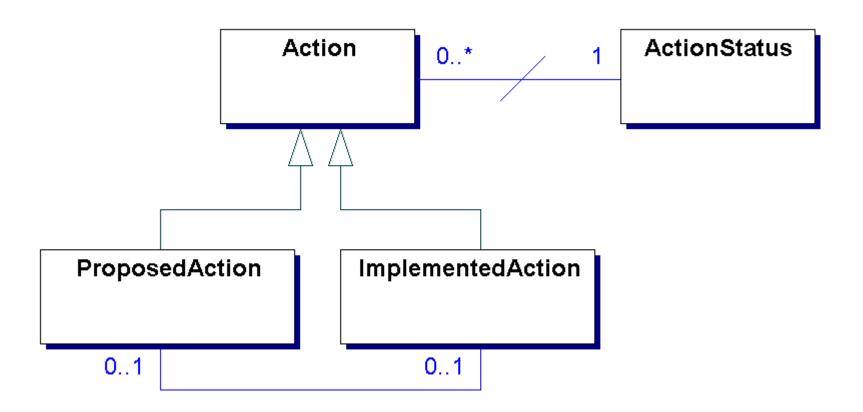






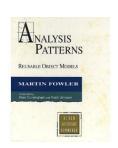
## Planning – Proposed and Implemented Action pattern

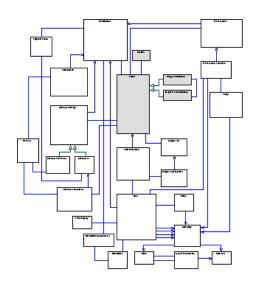


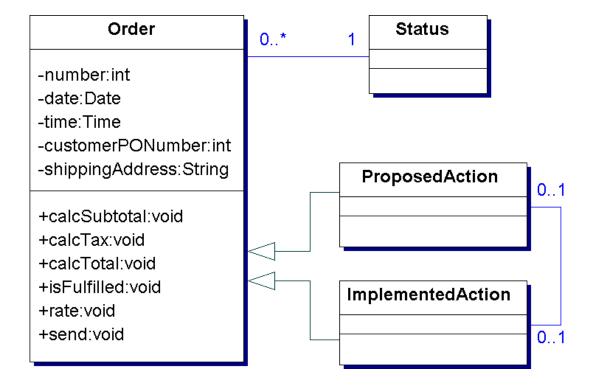




## Ollie's Order Center: Proposed and Implemented Action pattern

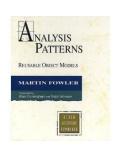


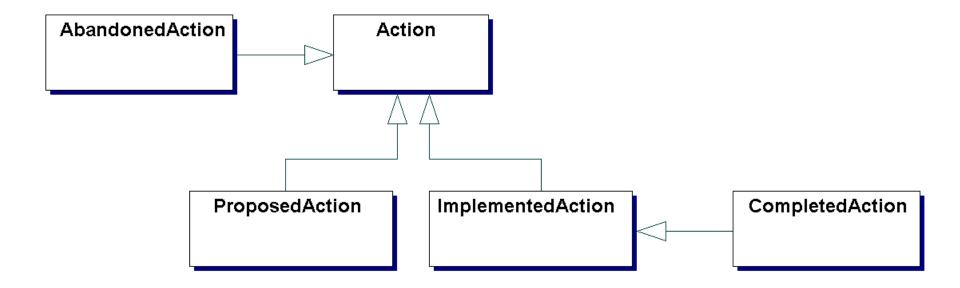






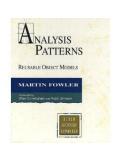
## Planning – Completed and Abandoned Actions pattern

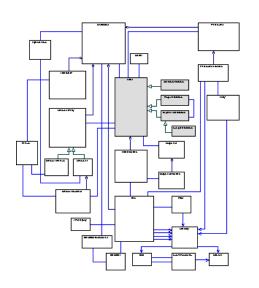


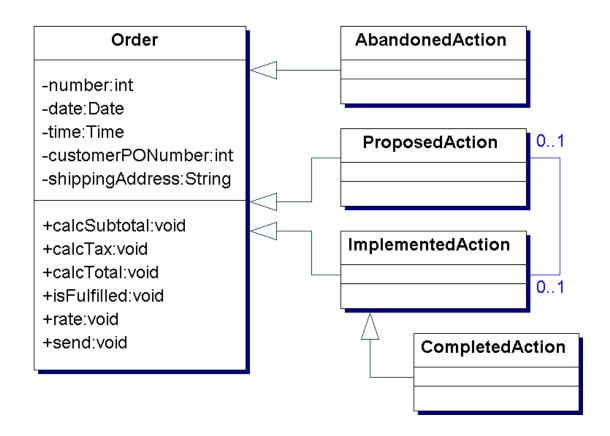




## Ollie's Order Center: Completed and Abandoned Actions pattern

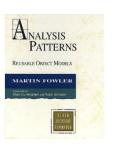








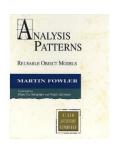
#### **Trading – Contract pattern**

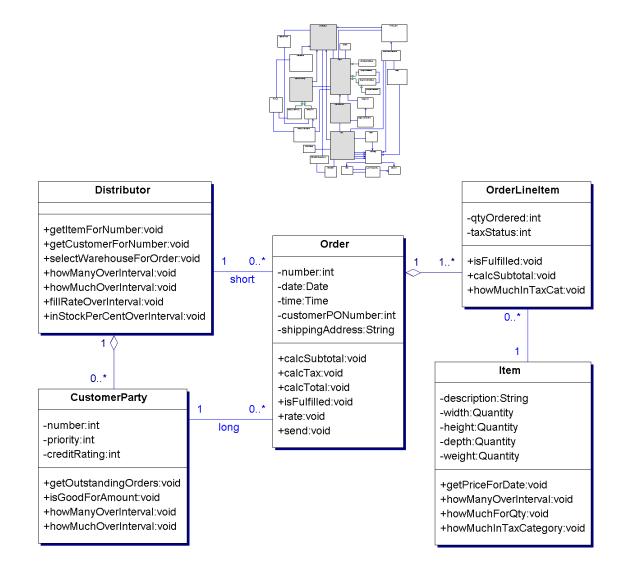


Party	1	short	0*	Contract		,	
,				-amount:Number	0*	1	Instrument
	1	long	0*	-price:Money			



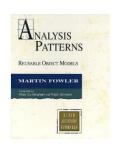
#### Ollie's Order Center: Contract pattern

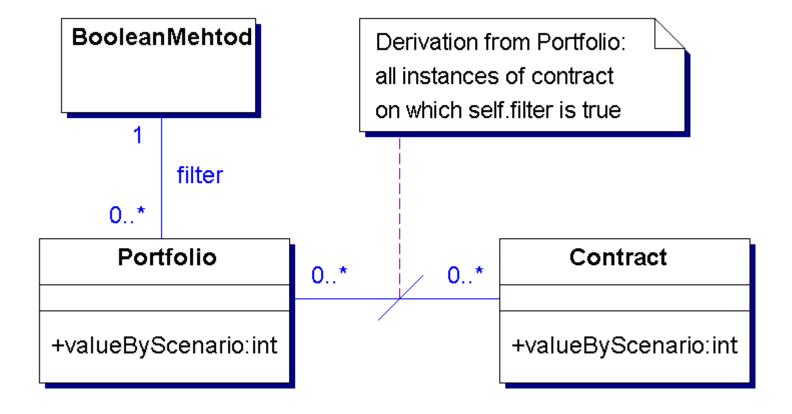






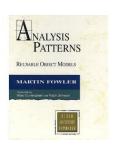
#### Trading – Portfolio pattern

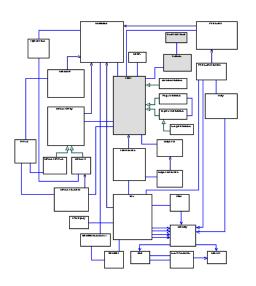


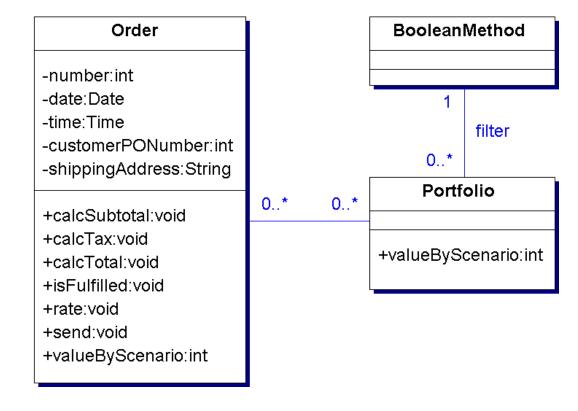




#### Ollie's Order Center: Portfolio pattern

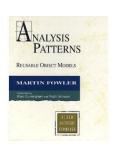








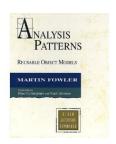
## **Derivative Contracts – Forward Contracts** pattern



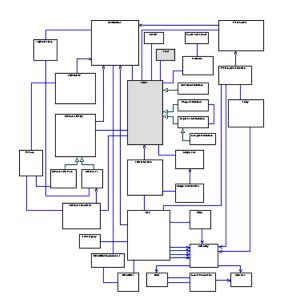
# Contract O...\* -tradeDate:Date -deliveryDate:Date

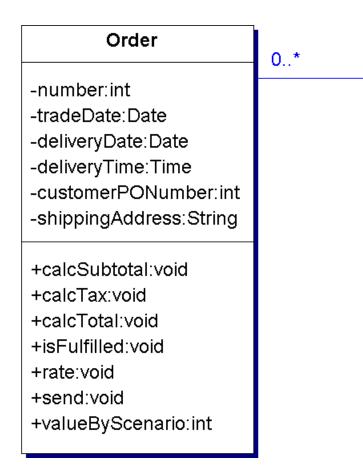


#### Ollie's Order Center: Forward Contracts pattern



**Tenor** 







#### Ollie's Order Center after patterns inclusion

