

Class Receiver

v.i: 'name continent'

```
class #newWithName: aString continent: anotherString
  ^ self new name: aString; continent: anotherString; yourself.
```

Class Transfer

v.i: 'amount receiver date channel'

```
class #newWithAmount: aNumber receiver: aReceiver channel: aChannel
  ^ self new initializeWithAmount: aNumber receiver: aReceiver channel:
aChannel
```

```
#initializeWithAmount: aNumber receiver: aReceiver channel: aChannel
  date := Date now.
  amount := aNumber.
  receiver := aReceiver.
  channel := aChannel.
  ^self
```

```
#continent
  ^ receiver continent.
```

```
#cost
  ^ channel costToTransfer: amount to: receiver
```

Class WorldTransfers

v.i: ' transfers channels '

```
#addChannel: aChannel
  channels add: aChannel
```

```
#transfer: aNumber to: aReceiver
  |selectedChannel|

  selectedChannel: = channels min: [:channel |
    channel costToTransfer: aNumber to: aReceiver].

  ^ transfers add: (selectedChannel transfer: aNumber to: aReceiver)
```

```
#allTransfersTimeSorted
  ^ transfers asSortedCollection: [:a :b | a date < b date].
```

```
#biggestTransfer
  ^ ( transfers asSortedCollection: [:a :b | a amount > b amount] ) first.
```

```

#continentWithMoreTransfers
    |continents|
    continents := (transfers collect: [:t | t continent ]) asSet.

    ^ continents asSortedCollection: [:a :b |
        (self totalTransferredToContinent: a) >
        (self totalTransferredToContinent: b) ] first.

#totalTransferredToContinent: aString
    ^ (transfers select: [:t| t continent = aString ] ) sum: [:t| t amount]

```

Class Channel abstract

```

v.i: ``

abstract #costToTransfer: aNumber to: aReceiver

#transfer: aNumber to: aReceiver
    ^ Transfer newWithAmount: aNumber
        receiver: aReceiver
        channel: self

```

Channel subclass: BankChannel

```

v.i: 'percentagesPerContinent'

#initialize
    percentagesPerContinent := Dictionary new.

#setPercentage: aNumber forContinentNamed: aString
    percentagesPerContinent at: aString put: aNumber

#costToTransfer: aNumber to: aReceiver
    ^ aNumber * (percentagesPerContinent at: aReceiver continent) / 100

```

Channel subclass: TransferAgencyChannel

```

v.i: 'basePrice costsPerContinent'

class #newWithBasePrice: aNumber
    ^ self new basePrice: aNumber; yourself.

#initialize
    basePrice := 0.
    costsPerContinent := Dictionary new.

#basePrice: aNumber
    basePrice := aNumber.

```

```
#setCost: aNumber forContinentNamed: aString
    costsPerContinent at: aString put: aNumber

#costToTransfer: aNumber to: aReceiver
    ^ basePrice + (costsPerContinent at: aReceiver continent)
```

Workspace

```
worldTransfers := WorldTransfers new.
```

```
fargo := BankChannel new.
fargo setPercentage: 5 forContinentNamed: 'America'.
fargo setPercentage: 5 forContinentNamed: 'Europa'.
fargo setPercentage: 7 forContinentNamed: 'Asia'.
fargo setPercentage: 13 forContinentNamed: 'Oceania'.
worldTransfers addChannel: fargo.
```

```
jpm := BankChannel new.
jpm setPercentage: 3 forContinentNamed: 'America'.
jpm setPercentage: 3.5 forContinentNamed: 'Europa'.
jpm setPercentage: 15 forContinentNamed: 'Asia'.
jpm setPercentage: 11 forContinentNamed: 'Oceania'.
worldTransfers addChannel: jpm.
```

```
wu := TransferAgencyChannel newWithBasePrice: 6.75 .
wu setCost: 5 forContinentNamed: 'America'.
wu setCost: 5 forContinentNamed: 'Europa'.
wu setCost: 15 forContinentNamed: 'Asia'.
wu setCost: 20 forContinentNamed: 'Oceania'.
worldTransfers addChannel: wu.
```

```
xoom := TransferAgencyChannel newWithBasePrice: 15 .
xoom setCost: 10 forContinentNamed: 'America'.
xoom setCost: 20 forContinentNamed: 'Europa'.
xoom setCost: 2 forContinentNamed: 'Asia'.
xoom setCost: 0 forContinentNamed: 'Oceania'.
worldTransfers addChannel: xoom.
```

```
receiver := Receiver newWithName: 'Juan' continent: 'Asia'.
transfer := worldTransfers transfer: 1000 to: receiver.
transfer channel
```