AsyncTask Usage Considerations

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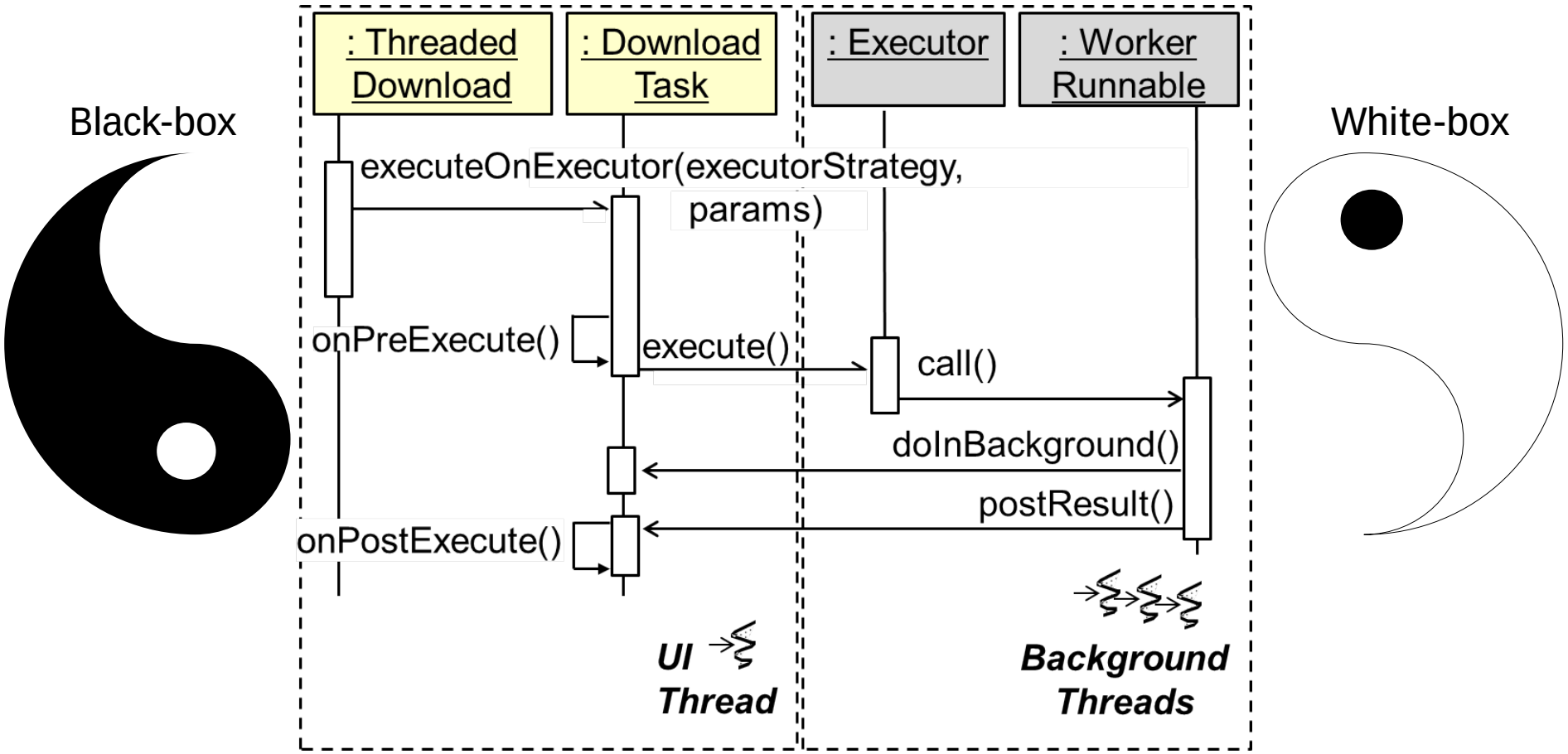
- AsyncTask is a black-box & white-box framework



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- There are trade-offs between each approach
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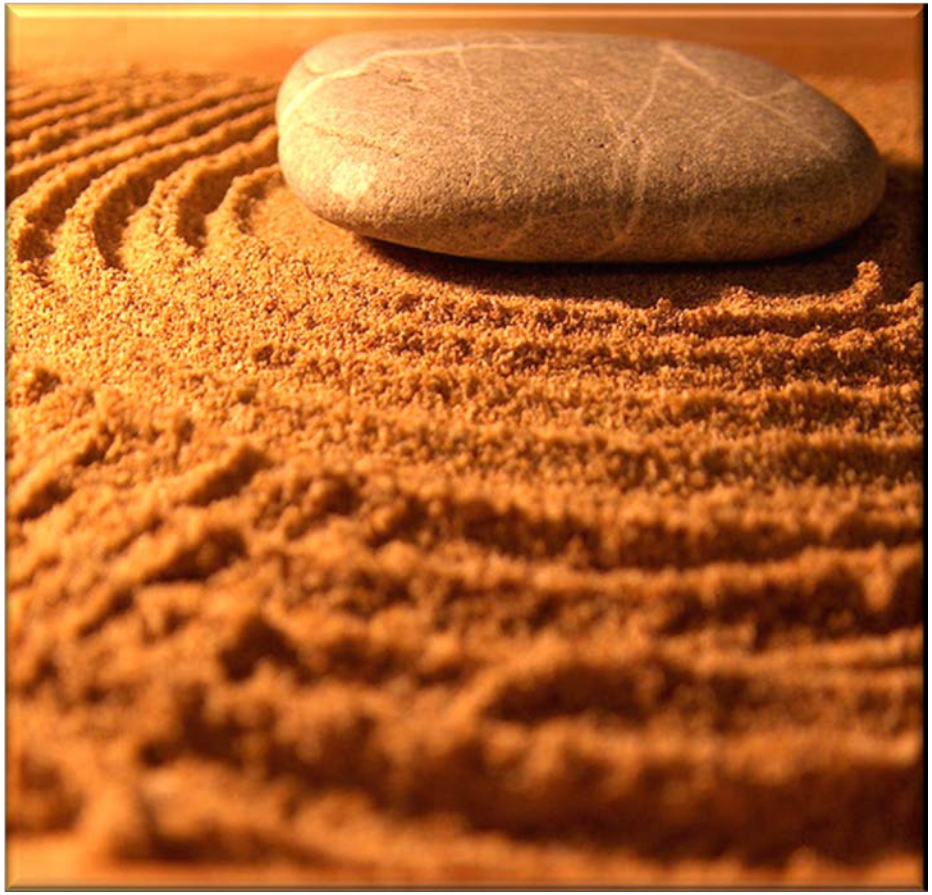
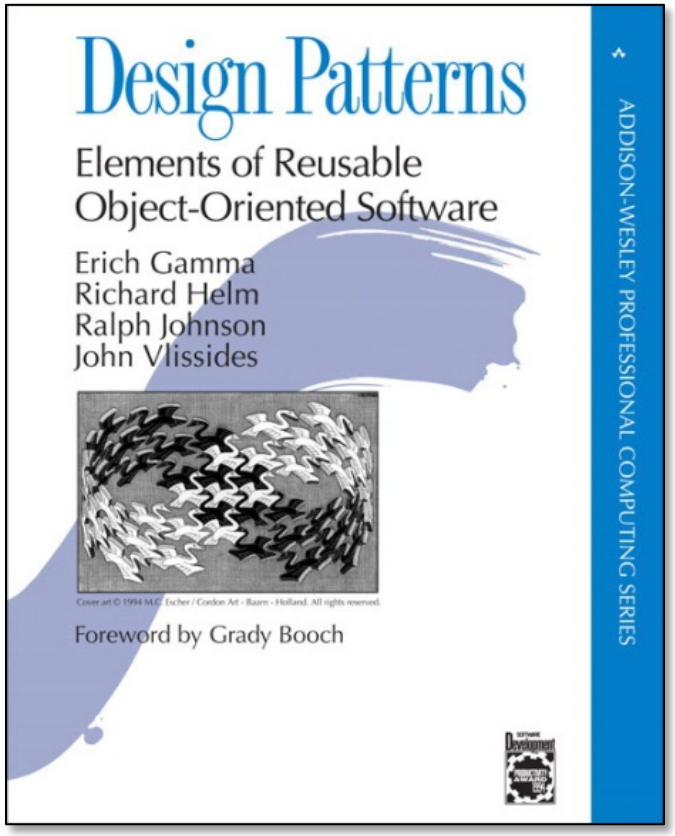


See en.wikipedia.org/wiki/Plug-in_(computing)

AsyncTask Usage Considerations

- AsyncTask is a black-box & white-box framework
- There are trade-offs between each approach
- AsyncTask uses several GoF patterns



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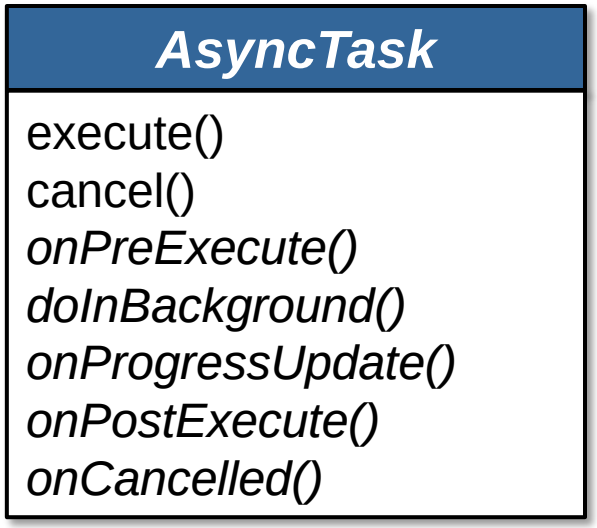

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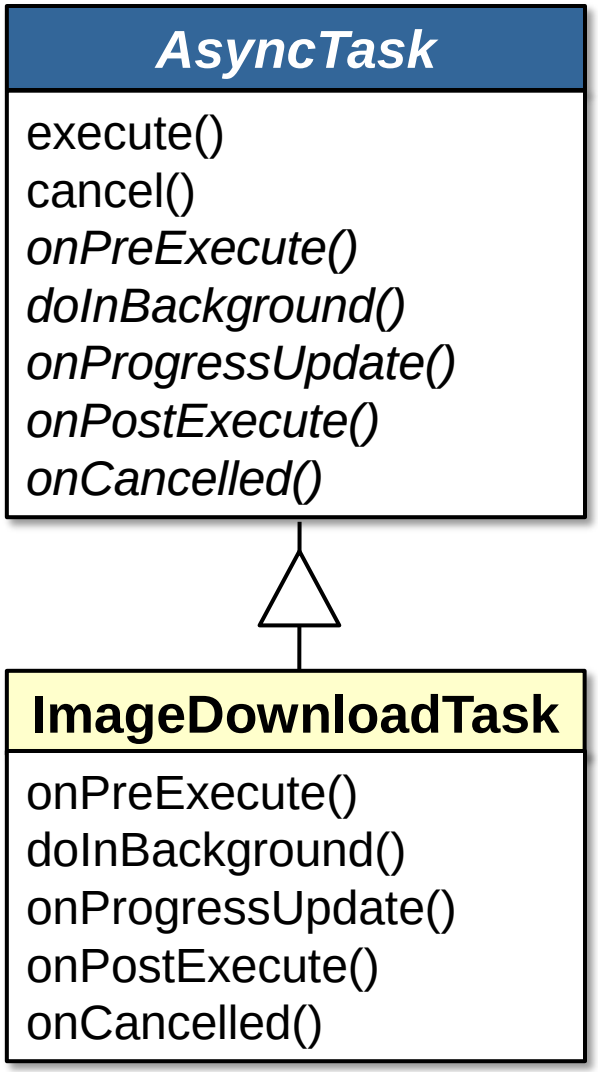

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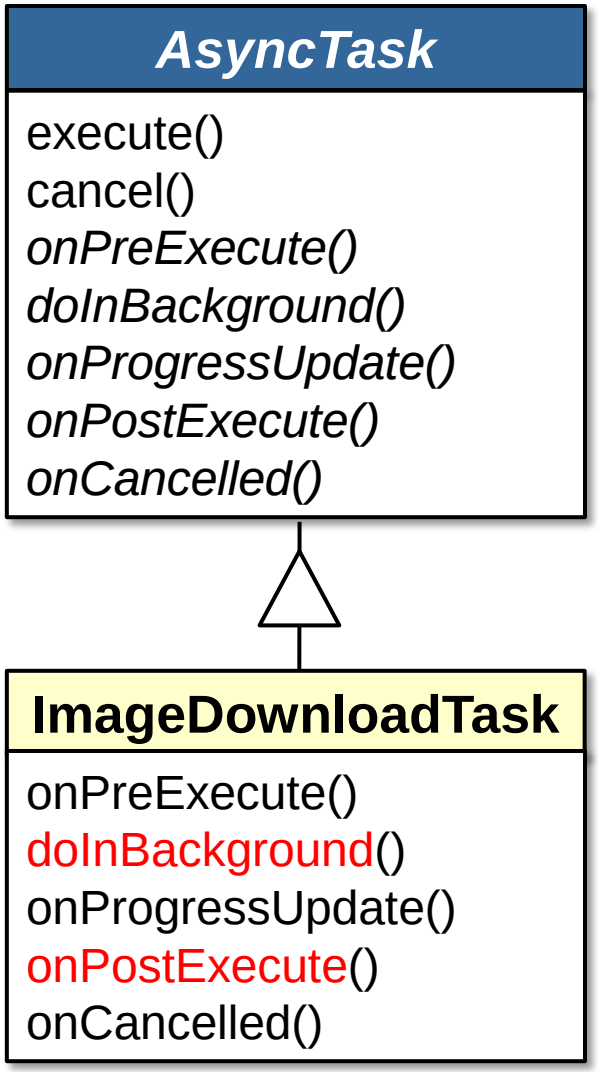

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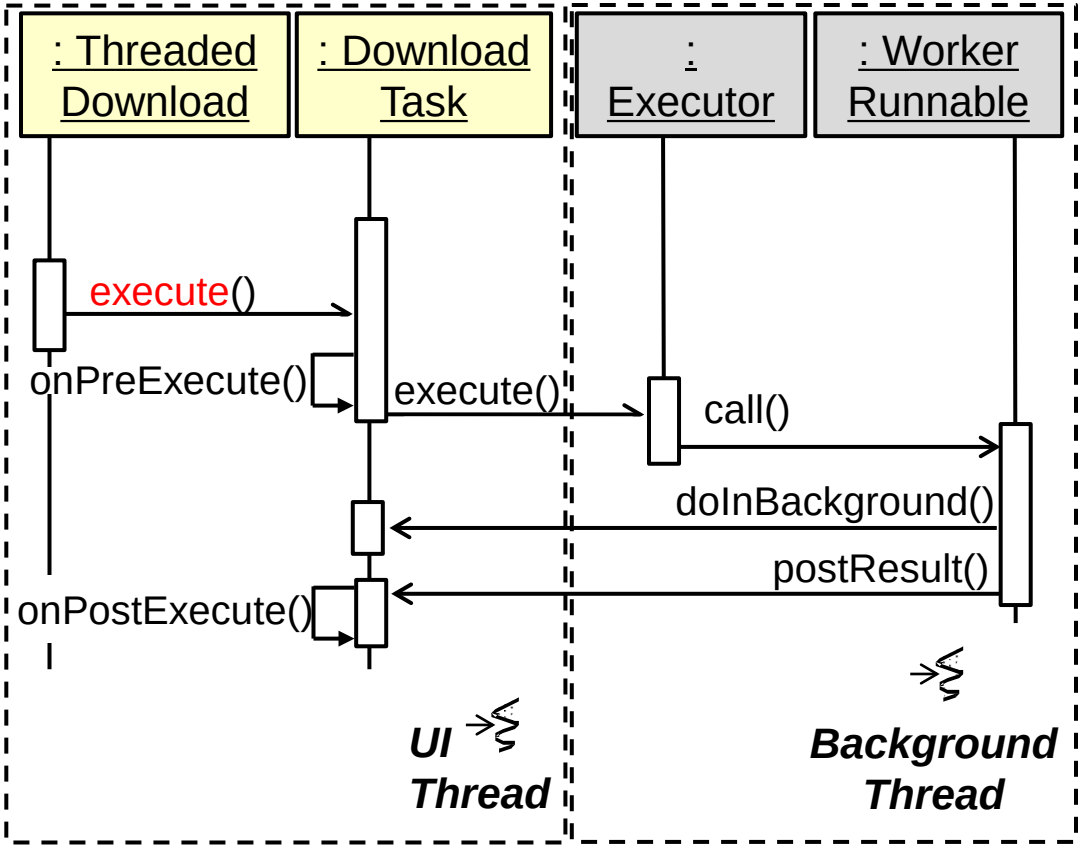

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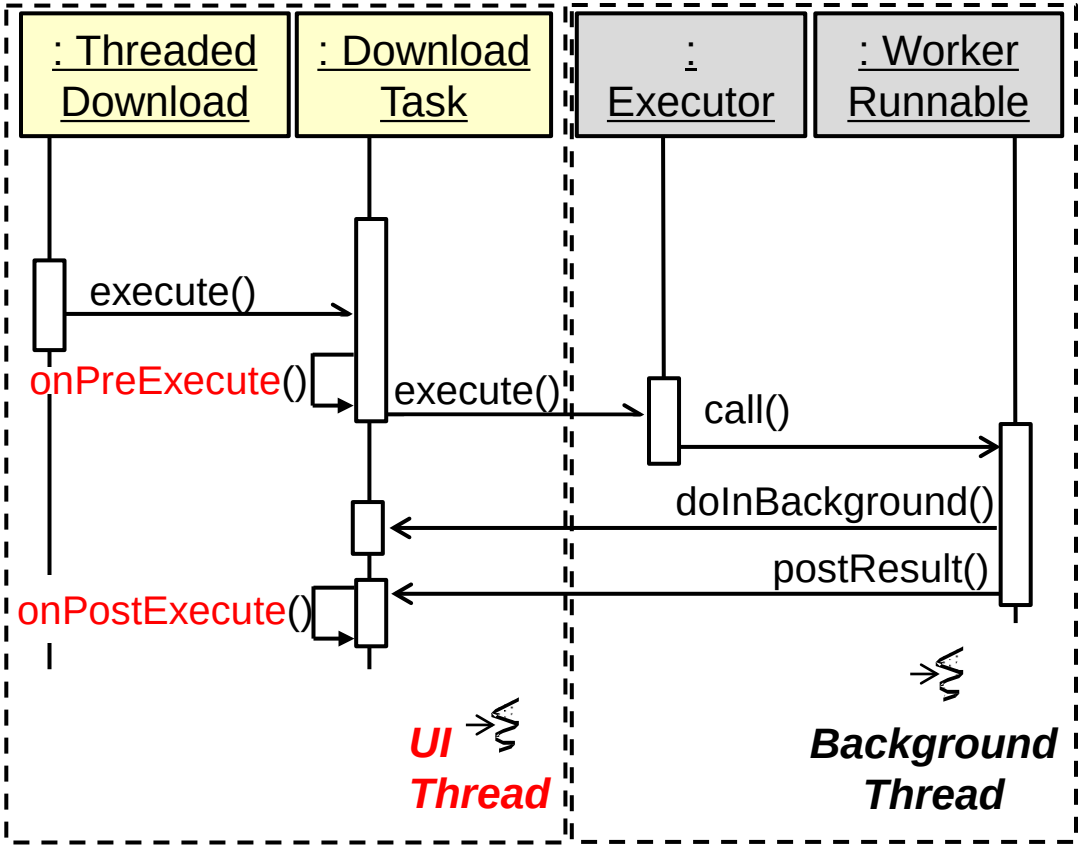

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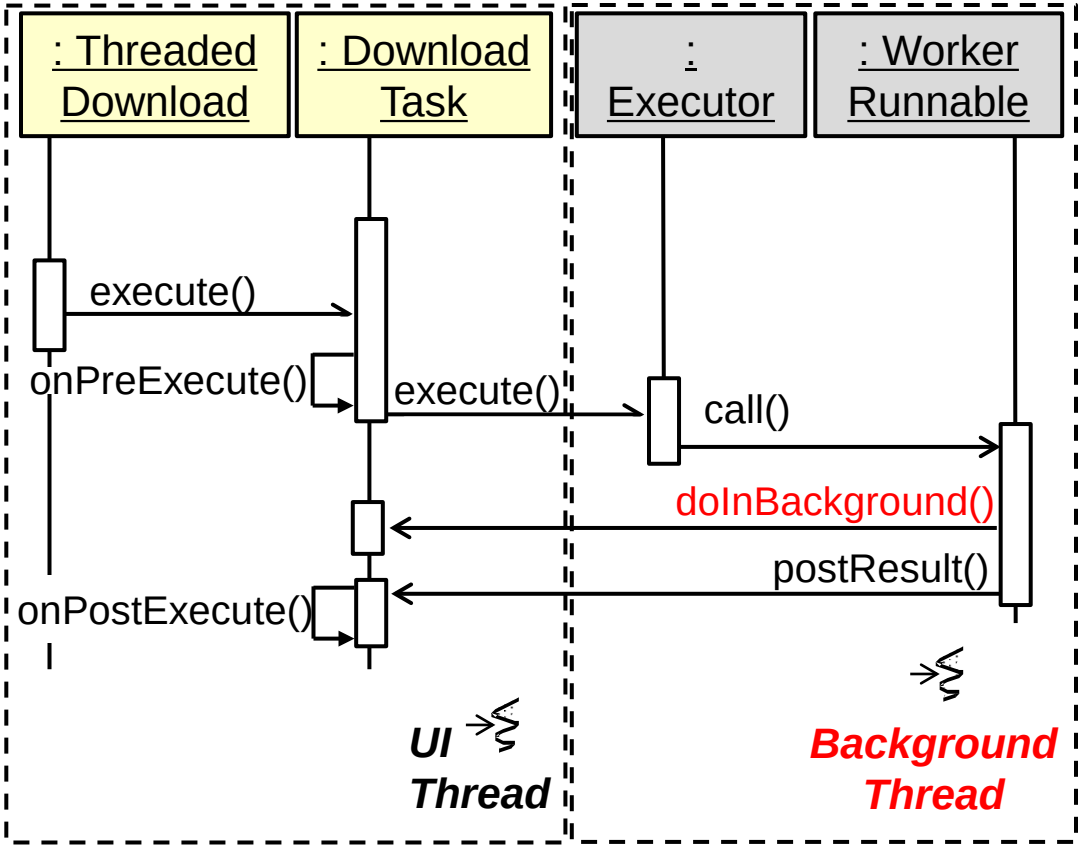

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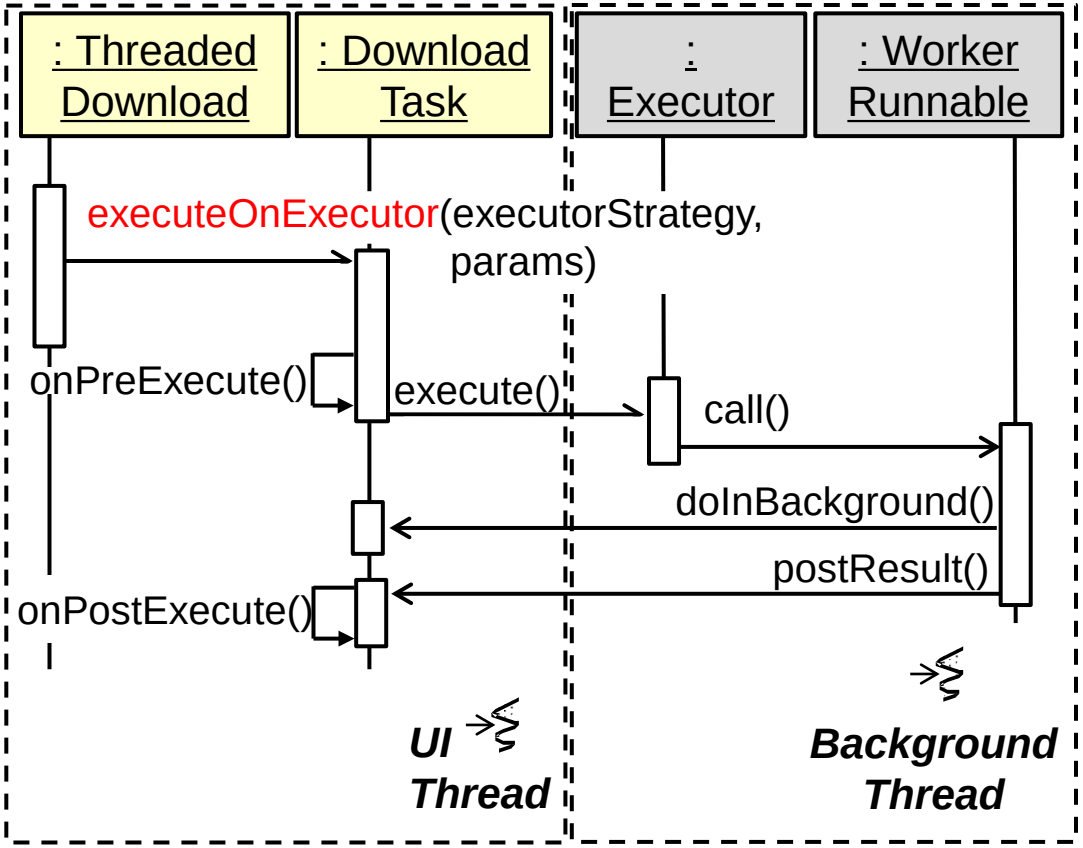

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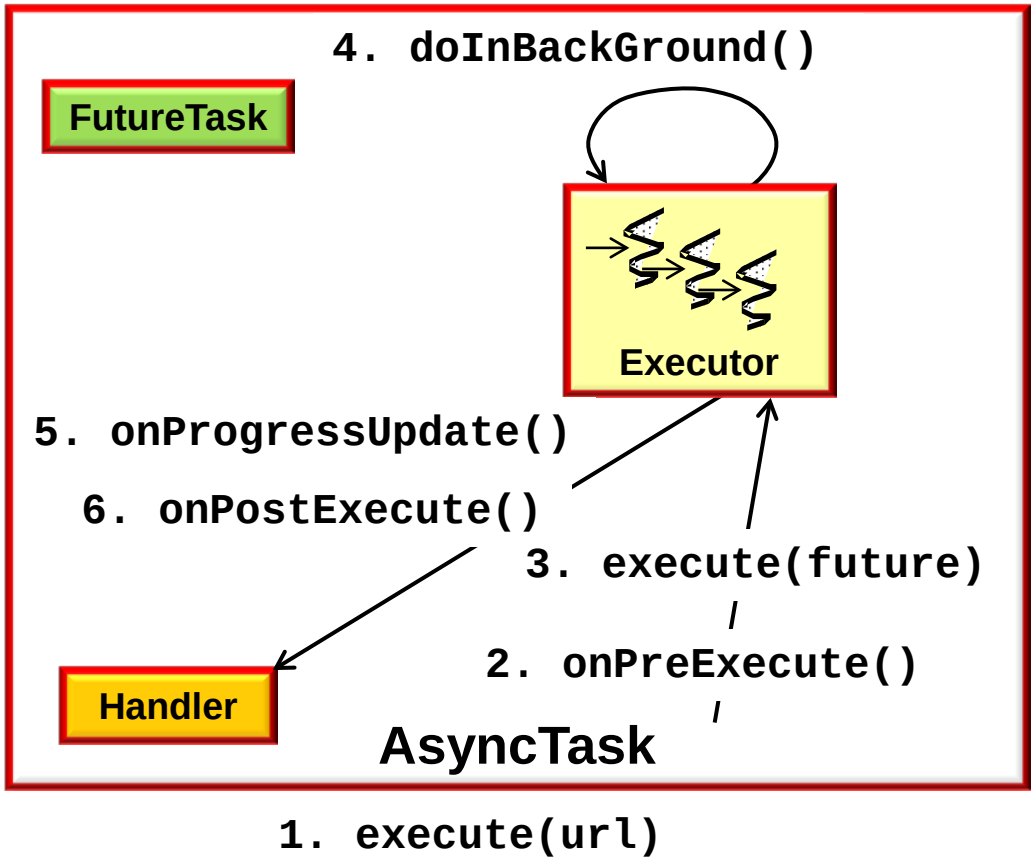
- There are trade-offs between each approach
- AsyncTask uses several GoF patterns
  - *Template Method* is used for its white-box capabilities
  - *Strategy* is used for its black-box capabilities
  - *Façade* is used to simplify access to the Java



AsyncTask Usage Considerations

- AsyncTask is a black-box & white-box framework
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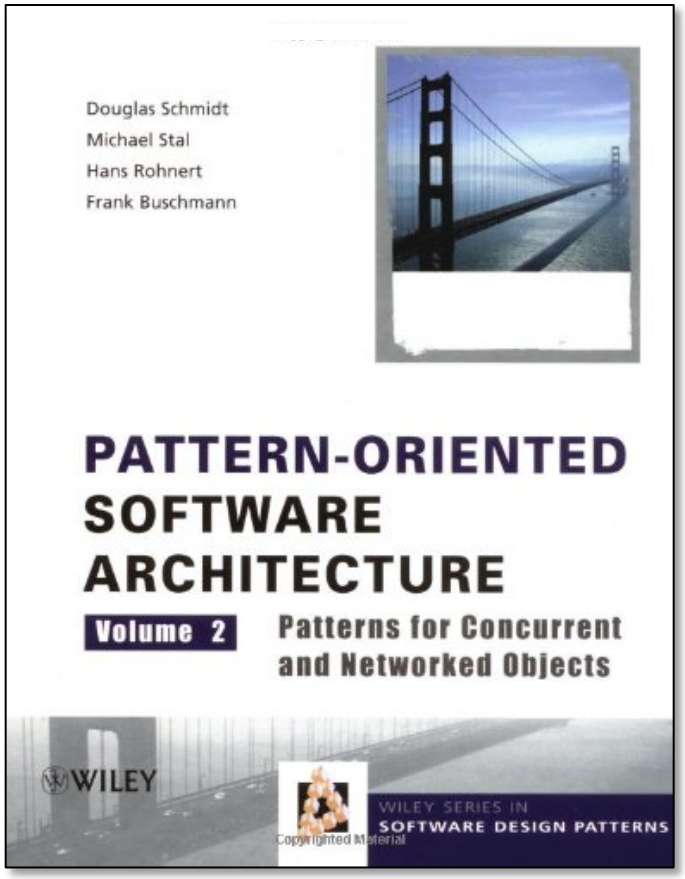
- AsyncTask uses several GoF patterns
- AsyncTask also uses several POSA patterns



AsyncTask Usage Considerations

- AsyncTask is a black-box & white-box framework
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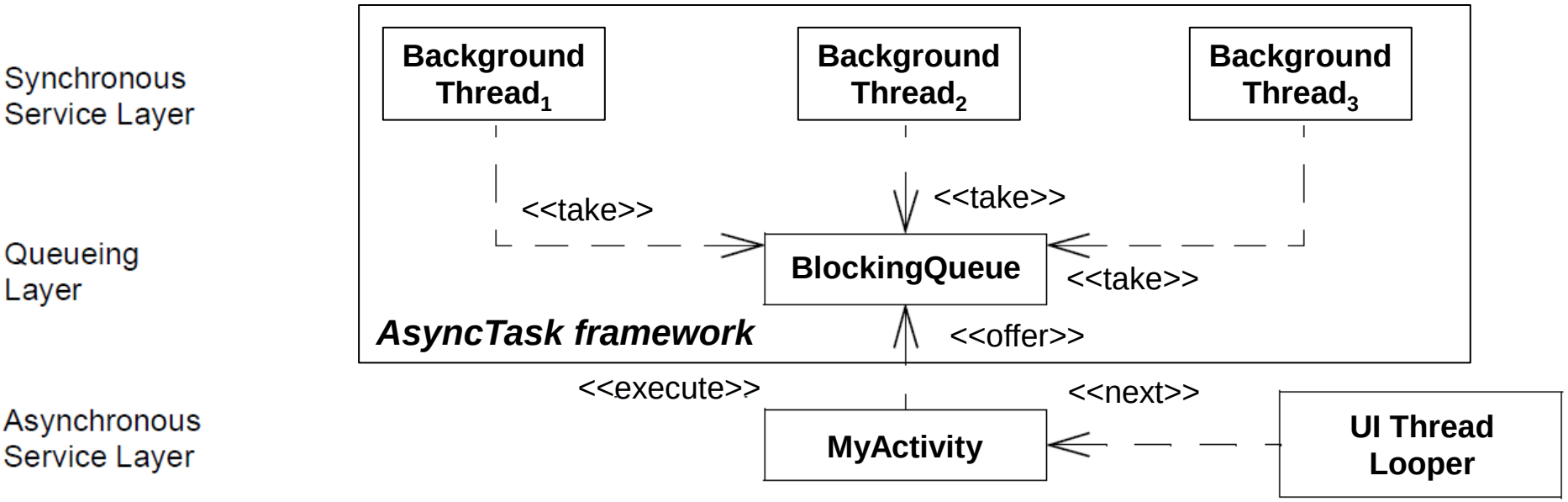
- AsyncTask uses several GoF patterns
- AsyncTask also uses several POSA patterns
  - *Half-Sync/Half-Async* is used to coordinate between the UI Thread & background Thread(s)



See upcoming discussions on "The *Half-Sync/Half-Async* Pattern"

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- AsyncTask is a black-box & white-box framework
- There are trade-offs between each approach
- AsyncTask uses several GoF patterns
- AsyncTask also uses several POSA patterns
  - *Half-Sync/Half-Async* is used to coordinate between the UI Thread & background Thread(s)
  - *Pooling* is used to manage multiple instances of Threads, which allows for reuse when AsyncTasks release Threads they no longer need