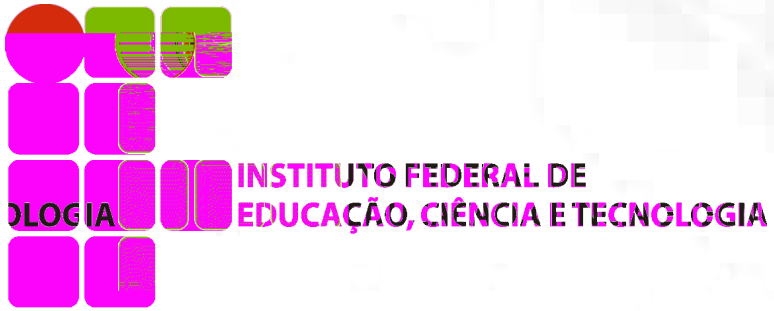
Padrão Facade

Sandro Santos Andrade
sandroandrade@ifba.edu.br

Instituto Federal de Educação, Ciência e Tecnologia da Bahia
Departamento de Tecnologia Eletro-Eletrônica
Graduação Tecnológica em Análise e Desenvolvimento de Sistemas



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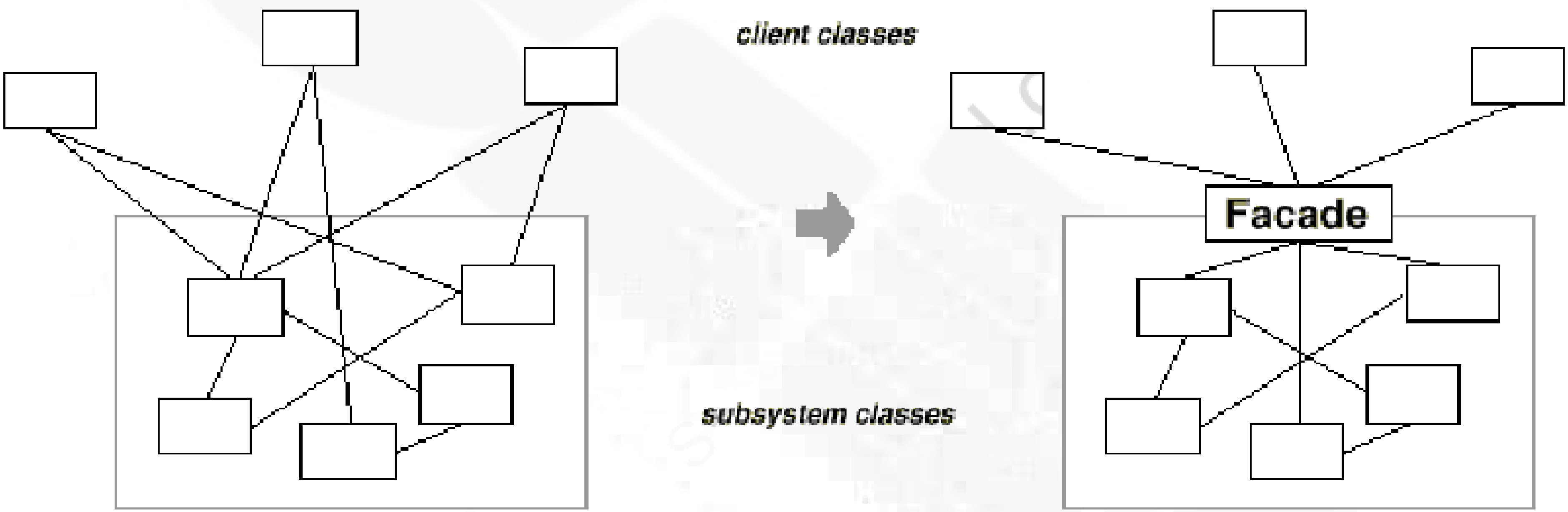

- *Scanner*
  Parser, *ProgramNode*

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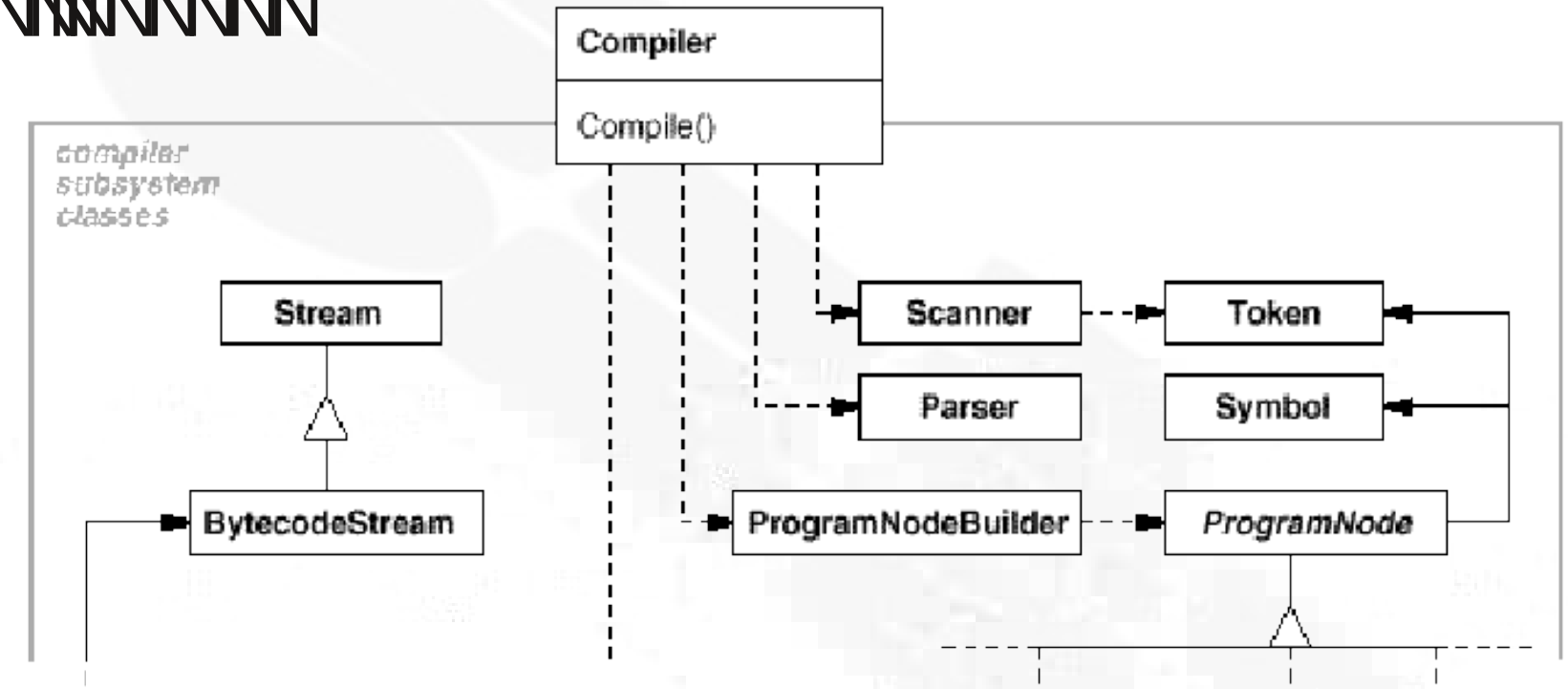

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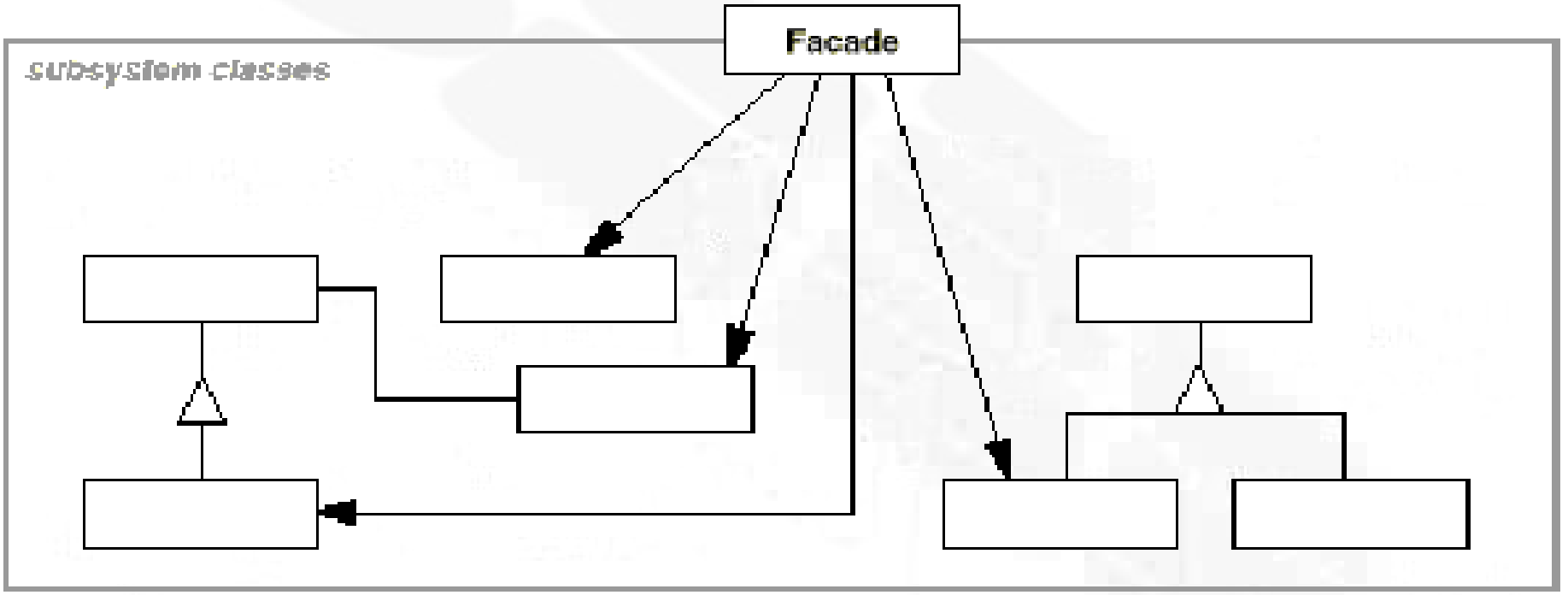

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```
class Scanner {
public:
    Scanner(istream&);
    virtual ~Scanner();

    virtual Token& Scan();
private:
    istream& _inputStream;
};
```

```
class Parser {
public:
    Parser();
    virtual ~Parser();

    virtual void Parse(Scanner&, ProgramNodeBuilder&);
};
```

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```
class ProgramNode {
public:
    // program node manipulation
    virtual void GetSourcePosition(int& line, int& index);
    // ...

    // child manipulation
    virtual void Add(ProgramNode*);
    virtual void Remove(ProgramNode*);
    // ...

    virtual void Traverse(CodeGenerator&);
protected:
    ProgramNode();
};
```

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```
class Compiler {
public:
    Compiler();

    virtual void Compile(istream&, BytecodeStream&);
};

void Compiler::Compile (
    istream& input, BytecodeStream& output
) {
    Scanner scanner(input);
    ProgramNodeBuilder builder;
    Parser parser;

    parser.Parse(scanner, builder);

    RISCCodeGenerator generator(output);
    ProgramNode* parseTree = builder.GetRootNode();
    parseTree->Traverse(generator);
}
```

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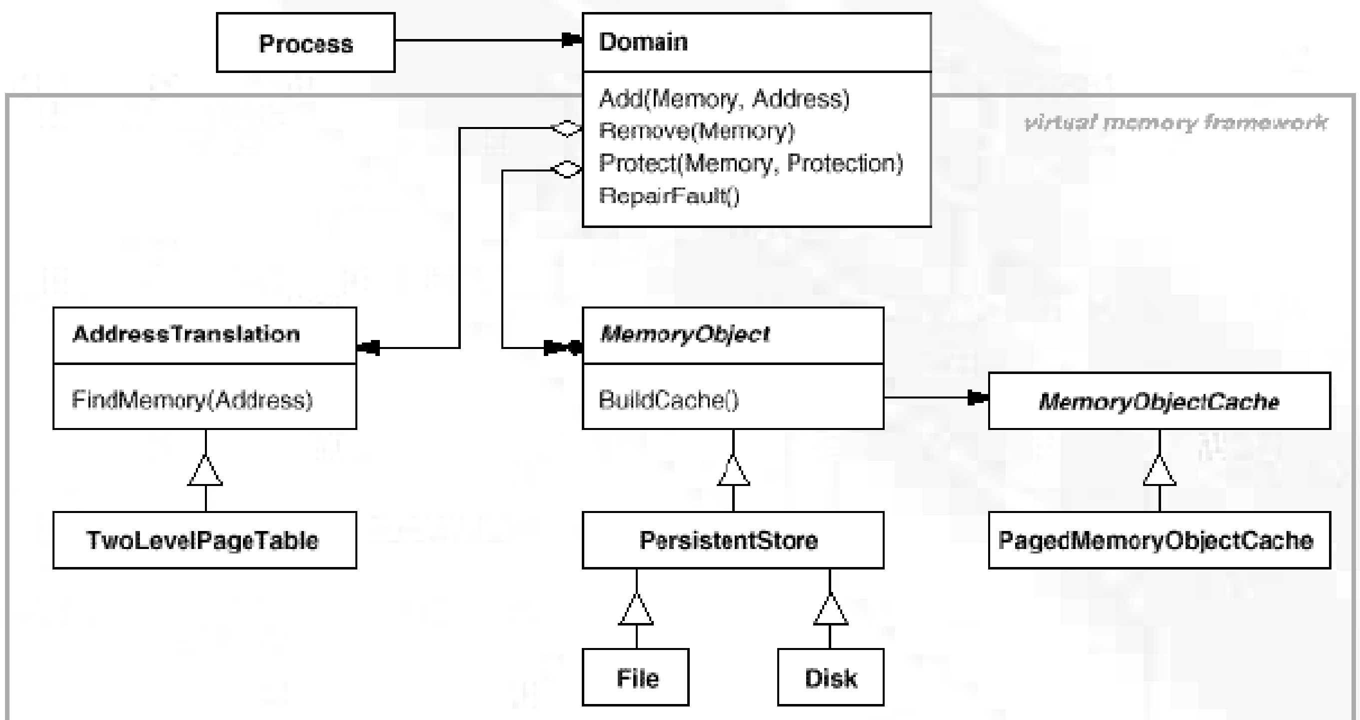

Process
Domain
Add(Memory, Address)
Remove(Memory)
Protect(Memory, Protection)
RepairFault()
virtual memory framework
AddressTranslation
FindMemory(Address)
MemoryObject
BuildCache()
MemoryObjectCache
TwoLevelPageTable
PersistentStore
PagedMemoryObjectCache
File
Disk

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  - [illegible] *AbstractFactory* [illegible]
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