



CS 4120 Introduction to Compilers

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Lecture 22: Miscellaneous OO

Avoiding Dynamic Dispatch

exact type analysis

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Specialization

```

A {
  f() [...];
  g() [...];
}
B extends A {
  f() {...};
}
HashSet(T) {
  ...
}
  
```

for Set?

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Multimethods

```

Type {
  equals(Type) [...];
  equals(Object) [...];
}
Object foo = new Bottom();
foo.equals(foo);
  
```

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Anonymous Classes/Objects

```

interface Function<P, R> {
  R call(P);
}
void foo (int x) {
  list.map(new Function() {
    ...
  });
}
  
```

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Downcasting and Reification

is List<Integer>

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