Enhanced typename

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1 Introduction

2 Proposal

```
Quick glance
// declare some materials
struct Color { void apply() {} };
struct Texture { void apply() {} };
struct Glass { void apply() {} };
// define a type alias
typename Material { void apply(); };
void foo() {
 {
    // use Material as a pointer
    Color color;
   Material* material = color;
    material->apply();
 }
 {
    // use Material as a reference
    Texture texture;
    Material& material = texture;
    material.apply();
 }
 {
    // host a Material in unique ptr
    std::unique_ptr<Material> material{new Glass()};
    material->apply();
}
Type alias can also combine with other type aliases to form a new type alias.
typename Gettable{ void get(); };
typename Settable{ void set(); };
typename GetSet : Gettable, Settable {};
typename GetSetEquvalent {
 void get();
 void set();
};
static_assert(std::is_same_v<GetSet, GetSetEquvalent>);
```

Type alias can also have specific constraints to control its copiability, relocatability, etc.

```
typename NoCopyNoMove {
 NoTrivial(const NoTrivial&) = delete;
 NoTrivial(NoTrivial&&) = delete;
};
void foo(NoCopyNoMove& a, NoCopyNoMove& b) {
 a = b; // compile error
 a = std::move(b); // compile error
Function overloads.
typename Addition {
 void operator()() const;
 int operator()(int , int) const;
 float operator()(float, float) const;
};
void foo(const Addition& add) {
  add();
 add(1, 2);
 add(0.1f, 0.2f);
}
```

3 Motivation