Create and Pass Callback Functions

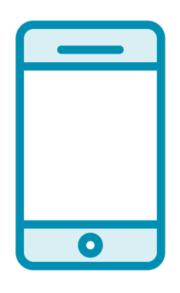


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Callback Functions



Also known as "callbacks"

How to think about callback functions

Creating callbacks

Passing callbacks

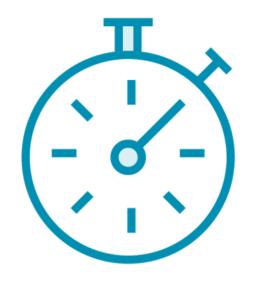
Callback tips



How to Think About Callback Functions



Common Places You'll Encounter Callbacks



Timers and Intervals



Modals with a Response



HTTP

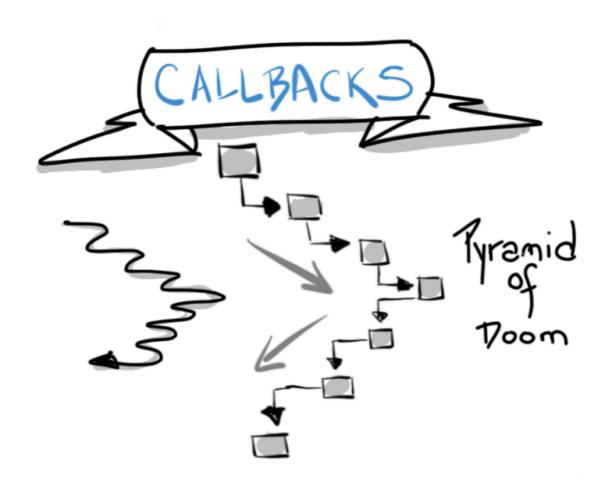


Callbacks are Helpful, Like Your Friends

Ask for a screwdriver You pass the callback to another function Your friend gets the screwdriver The function does it's work The function executes your Your friend hands you the screwdriver callback function, passing data You now have the data and may You use the screwdriver proceed



A Series of Functions that Call Functions





```
const getHeroTreeCallback = function(email: string, callback: any) {
 getHeroCallback(email, hero => {
                                                                 Callback
```



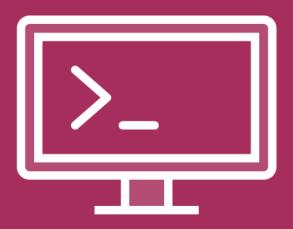
```
const getHeroTreeCallback = function(email: string, callback: any) {
  getHeroCallback(email, hero => {
   getOrdersCallback(hero.id, orders => {
                                                                  Callback
     });
```



```
const getHeroTreeCallback = function(email: string, callback: any) {
 getHeroCallback(email, hero => {
   getOrdersCallback(hero.id, orders => {
                                                                  Callback
      hero.orders = orders;
      getAccountRepCallback(hero.id, accountRep => {
      });
```

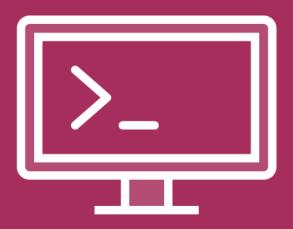
```
const getHeroTreeCallback = function(email: string, callback: any) {
  getHeroCallback(email, hero => {
   getOrdersCallback(hero.id, orders => {
      hero.orders = orders;
      getAccountRepCallback(hero.id, accountRep => {
        hero.accountRep = accountRep;
                                                                   Now pass back the
        callback(hero);
                                                                   hero through the
                                                                   original callback
      });
    });
 });
              This nesting is known as the "Pyramid of Doom"
```





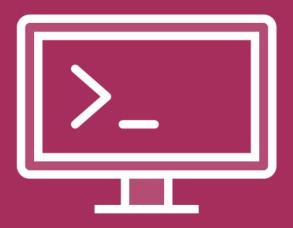
Sync and Async Callbacks





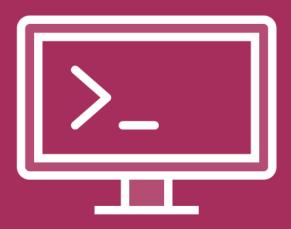
Creating Callbacks





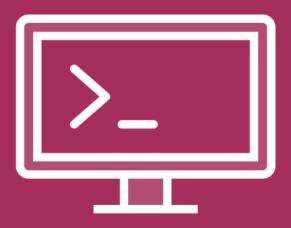
Passing Callbacks





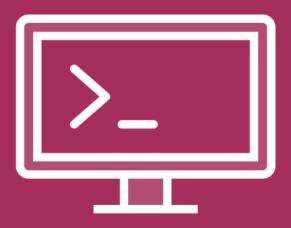
Getting Data with Callbacks





Rendering Heroes Using Callbacks





Callback Tips



Summary



You give another function instructions to follow when it is time

Creating callbacks

Passing callbacks

You can use arrow functions =>

Handling errors is important

