### **Shadow DOM Insertion Points & Events**

Cory House bitnative.com Twitter: @housecor





# **Agenda**

Content Insertion Points Shadow Insertion Points

**Events** 

#### **Insertion Points**

<content>

creates insertion point

<content select="img"> "insert images here"

<content>

"insert anything not already inserted"



**Shadow DOM Insertion Points with <content>** 

#### **Insertion Points vs Distributed Nodes**

<content> creates an insertion point.

Elements inserted at this insertion point are called distributed nodes.

#### **Insertion Points Don't Move DOM**

<content> merely says "Show this content from the Light DOM here".

The Distributed Node remains part of the Light DOM.



Yep, this is a weird concept.

#### **Can't Traverse Into Distributed Nodes**

<content></content>

Any content that is distributed here can't be traversed (with traditional APIs at least)

**Traversing Distributed Nodes** 

### **Supported < content> Selectors**

```
<content select="p"></content>
Type selector
Class selector
                        <content select=".target"></content>
Attribute selector
                        <content select="input type=[text]"></content>
ID selector
                        <content select="#target"></content>
                        <content select=":not(.ugly)"></content>
Negation pseudo-class
Universal selector
                        <content></content>
                                Catch all
```

**Content Selectors** 

#### **Shadow Insertion Points**

<shadow>

Youngest tree is the last one added. Previous trees are called older trees.

Only the first shadow insertion point in a shadow tree is recognized.

**Shadow Insertion Points with <shadow>** 

# ${\tt getDistributedNodes}$

What elements are being distributed into this <content> tag?

Returns a list of distributed nodes in a <content> element.

## getDestinationInsertionPoints

Where is this DOM element being inserted?

Returns list of insertion points a node is distributed into

**Listing Distributed Nodes and Destination Insertion Points** 

**Listing Destination Insertion Points** 

### **Event Retargeting**

**Events in the Shadow DOM are retargeted** 

Events will appear to come from the shadow host

**Event Retargeting** 

# **Distributed Nodes Aren't Retargeted**

Events aren't retargeted for elements distributed via <content>

**Distributed Nodes Aren't Retargeted** 

# **Some Events Just Stop**

abort

error

select

change

load

reset

resize

scroll

selectstart

**Some Shadow Events Stop** 

### **Summary**

Create Insertion points via <content>
Create shadow insertion points with <shadow>
Distributed nodes and Insertion points
List distributed nodes with getDistributedNodes
List points a node is distributed using getDestinationInsertionPoints
Many events are retargeted. A few are stopped.