

# Home

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## Preparation

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<https://github.com/inoce1e/micenas/wiki>

Clone in Desktop

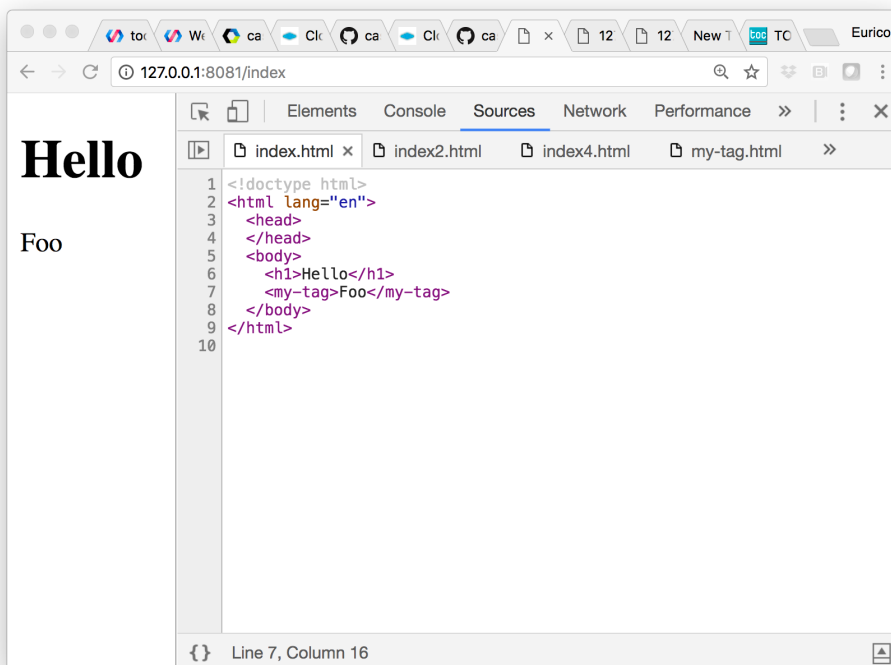
```
cd /Users/emi/Dropbox/casper2020/NTAP
polymer serve
```

Open localhost:8081/ index1 to index4 and my-tag should be opened in developer tab,

Open <https://www.webcomponents.org/element/casper2020/casper-context-menu> on another tab

## index.html

Just point out that my-tag is silently accepted by the browser,



esc to open console

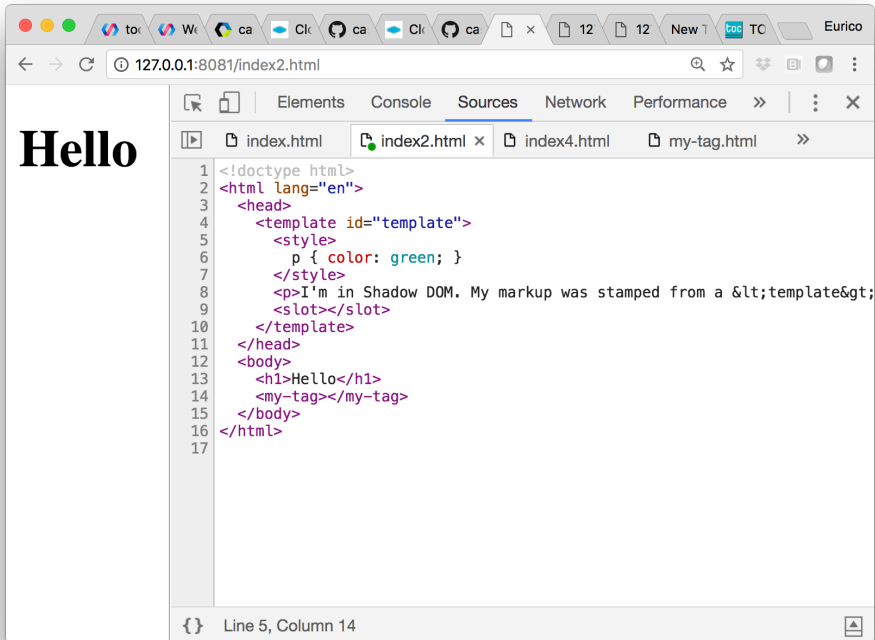
```
elm = document.getElementsByTagName('my-tag')[0] // open elm show light dom
elm.attachShadow({mode: 'open'}); // type elm to show empty shadow-root
elm.shadowRoot.innerHTML = "<h2>world of shadows</h2>" // again show elm now with ar
```

Now show the visibility of element in DOM and shadow-root

```
document.getElementsByTagName('my-tag')[0] // one element
document.getElementsByTagName('h2') // no element, shadow dom encapsulation
elm.shadowRoot.querySelector('h2') // and we grab the h2 in the shadow root
elm.shadowRoot.innerHTML = "<style>:host { color: red; }</style><h2>world of shadows"
```

Styles are trapped inside shadow root

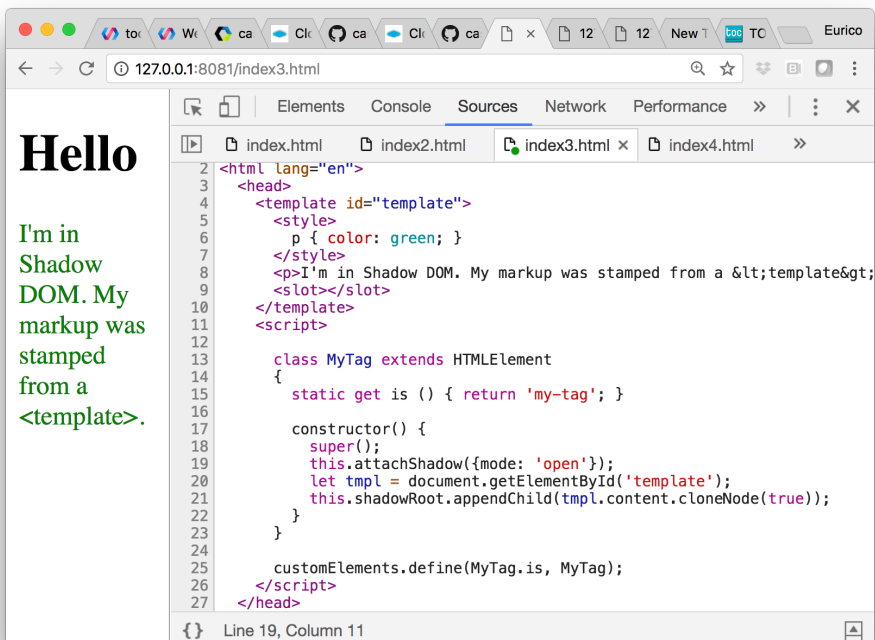
## index2.html now the template



Point out that template is an inert content, it's not shown

```
template = document.getElementById('template') // show template.content
elm = document.getElementsByTagName('my-tag')[0]
elm.attachShadow({mode: 'open'}); // show shadow root empty
elm.shadowRoot.appendChild(template.content.cloneNode(true));
```

## index3.html now the object

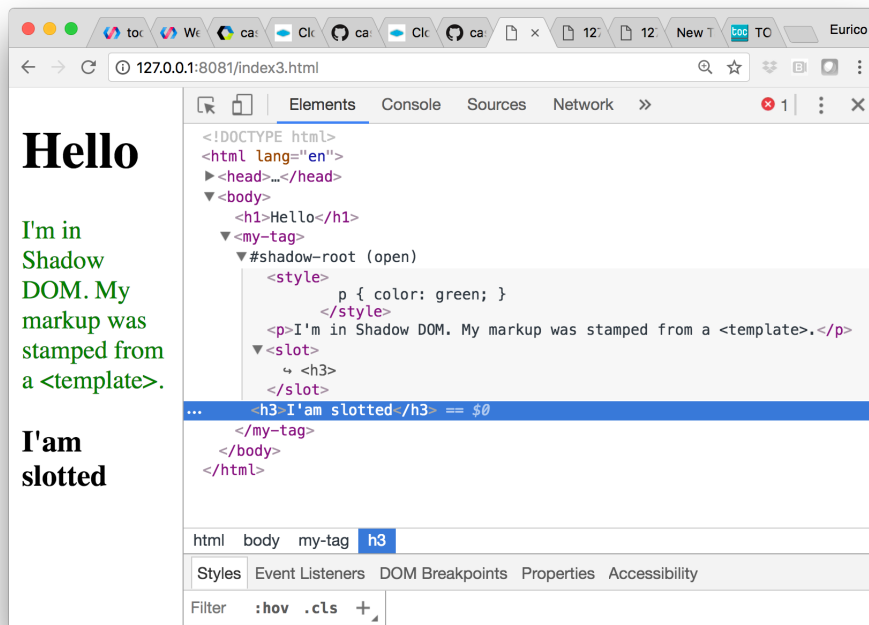


Show the element registration

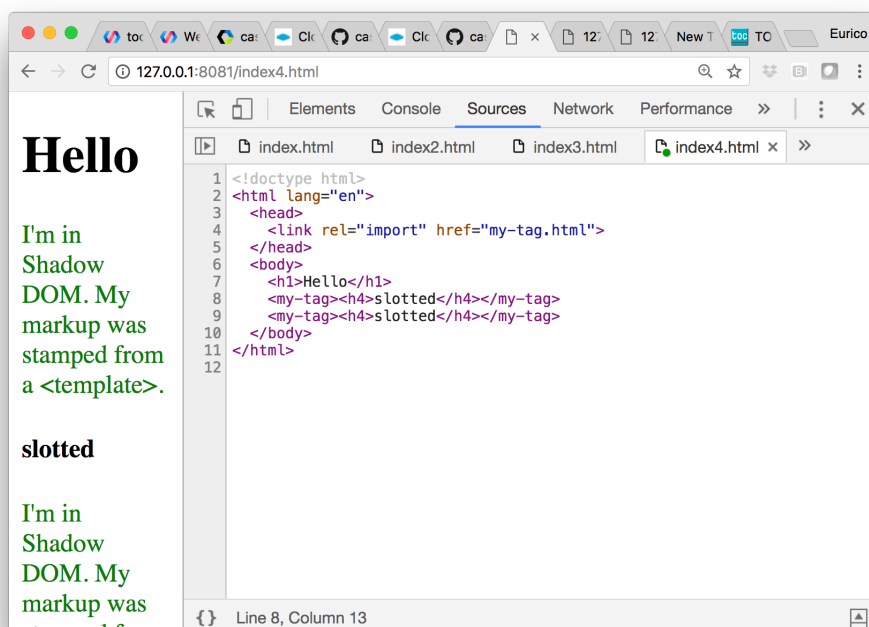
```
customElements.define(MyTag.is, MyTag); // when a my-tag is created the constructor
```

Stop in constructor, show the templating again, print `tmpl.content` Show the use of the slot edit my tag and insert an `h3` inside my tag `<h3>I'am slotted</h3>`

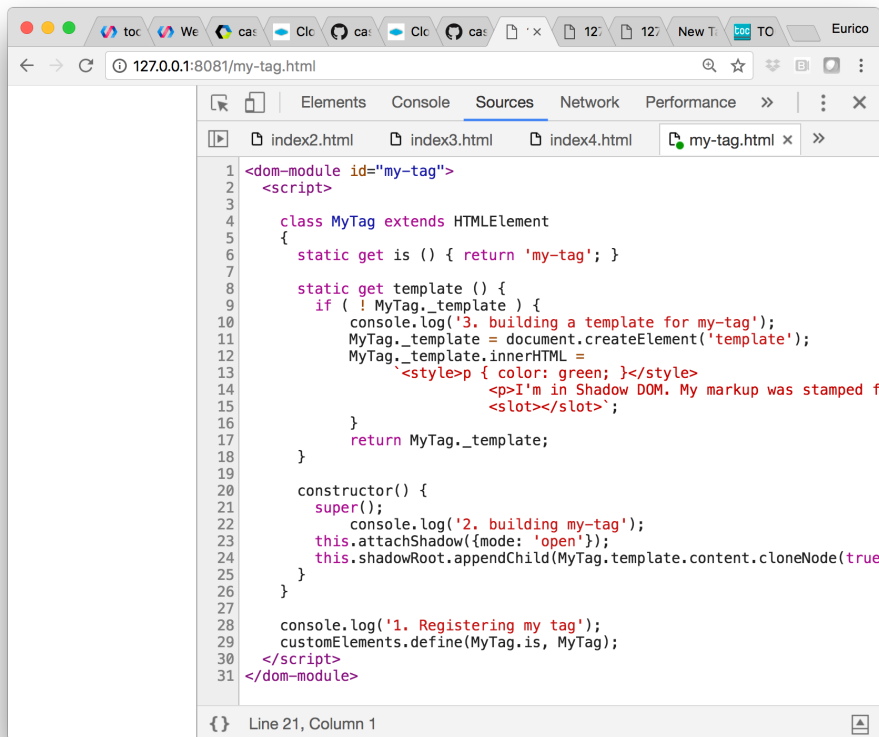
Now it's a good time to show that `h3` in light dom is linked from the shadow-dom, switch to the Elements tab



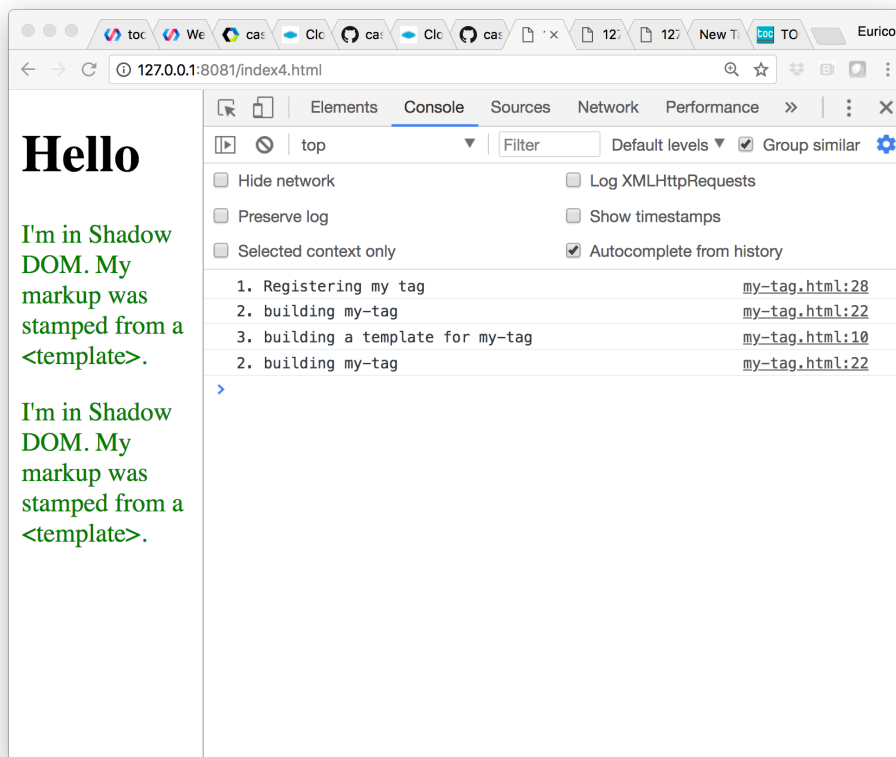
## index4.html moving our component to another file



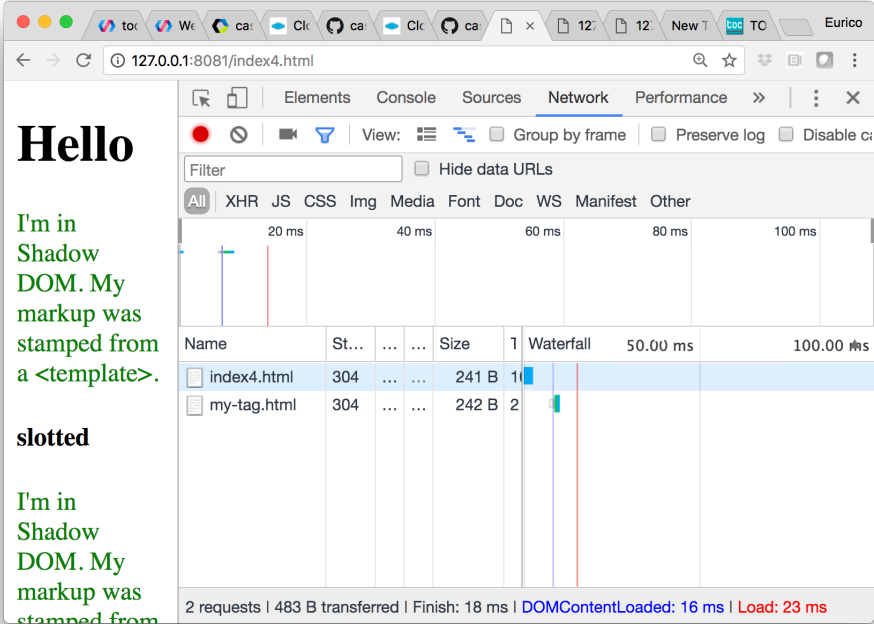
This index creates two tags, important point is the appearance of the import `<link rel="import" href="my-tag.html">`



Explain the `get template` method, it will create the static `MyTag._template` once as needed. Element registration will occur once as before As we have two tags the constructor will be called twice show the console trace



Now show the network trace



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