WEBEXTENSIONS

LOGISTICS

TODAY

- Anatomy of a web extension
- Chrome APIs
- Demo: Developing extensions in Chrome
- Break!
- Intro MP1 and brainstorming
- Work time

ANATOMY OF A WEB EXTENSION

WEB EXTENSION COMPONENTS

- manifest.json-required
- Content script inject logic into the page
- Options page enables customization of the extension
- Toolbar icon displayed in the browser toolbar
- UI elements such as a popup
- Service worker the extension's event handler

manifest.json

Required file that provides important information about the extension

```
// Required
"manifest version": 3,
"name": "My Extension",
"version": "1.0.1",
// Recommended
"action": {...},
"default_locale": "en",
"description": "A plain text description",
"icons": {...},
// everything else optional
```

UI ELEMENTS

- An action click event.
- A popup.
- A context menu.
- An omnibox.
- A keyboard shortcut.
- Desktop notifications.
- Text-to-speech.
- A custom UI injected into a page.

CONTENT SCRIPTS

- read and modify the content of a page
- live in an isolated world
- can be injected only on certain urls

OPTIONS PAGE

enables customization of the extension

CHROME APIS

THERE ARE MANY APIS AVAILABLE TO YOU!

Read the docs

DEMO: RUNNING EXTENSIONS IN CHROME

BREAK!

INTRODUCING MP1

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Ask questions. Consult the resource docs.

Super basic thing that is functional:

Super basic thing that is functional: Yes!!

Super basic thing that is functional: Yes!!

Complex thing that has never worked:

Super basic thing that is functional: Yes!!

Complex thing that has never worked: No!!

YOUR GOAL

Always have a version that works,

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Always have a version that works, even if it seems simple or uninteresting.

BRAINSTORMING

In groups, take ten minutes to brainstorm ideas. Here are some to get you started:

- tab group saver
- meme or gif saver
- random rick rolls
- bookmarks manager

- eye strain alert
- ascii art keeper
- easy-copy emojis
- site blocker

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silly ideas encouraged!

SHARE BACK

SIMPLIFY!

WORK TIME!