



Optimize response time

Every detail matters in mobile Web applications and some technical points may significantly boost the overall user experience.

- Aggregate static images into a single composite resource (sprites).
- Include background images inline in CSS style sheets.
- Keep DOM size reasonable.
- Minimize perceived latency.
- Optimize for application start-up time.

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Set users free

Mobile devices are used in various contexts, from killing time at home to urgent requests on the go.
Let users know and control what happens to earn their trust.

- Ensure the user is informed about use of personal and device information.
- Enable automatic sign-in.
- Offer users a choice of interfaces.
- Don't change focus when dynamically updating page sections.



Mobilize your apps!

These guidelines aid the development of rich and dynamic mobile Web applications.

For more information:

www.w3.org/TR/mwabp/



Supported by the MobiWebApp FP7 EU project **mobiwebapp.eu**

WORLD WIDE WEB





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Design for flexibility

- Ensure text flows.

- Use device classification to simplify content
- Support a non-JavaScript variant if
- appropriate.

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Web Principles Remember

of robust mobile Web applications. principles also apply to the development devices and users at reduced cost. access the Web. Generic Web Flexibility allows you to address more Mobile devices are just one way to and heterogeneous environments. Web applications are run in evolving

Use fragment IDs to drive application view.

Ensure consistency of state between devices.

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Do not execute unescaped or untrusted

JSON data.

Replicate local data.

- Design for multiple interaction methods.
- Prefer server-side detection where possible.
- Use client-side detection when necessary.
- adaptation.





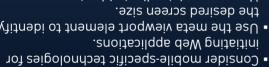




Spare the network

and latency. features to reduce network bottlenecks Use appropriate Web protocol

- Use transfer compression.
- Cache resources by fingerprinting resource
- references.
- Cache AJAX data.
- Minimize external resources.
- Minimize application and data size.
- Avoid redirects.
- Optimize network requests.
- Use cookies sparingly.
- Do not send cookie information
- nunecessarily.



Make telephone numbers "click-to-call".

particularly relevant to mobile devices.

specific features

Exploit mobile-

- Use the meta viewport element to identify
- Use appropriate client-side storage
- technologies for local data.

Some Web technologies are

Learn to use them.

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