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OAuth 2.0 User Experience Extension  
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Abstract

This specification defines two user experience oriented extension parameters for OAuth 2.0 user authorization requests.

Status of this Memo

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## [1.](#) Introduction

This extension defines additional parameters for the client to include in OAuth 2.0 requests to the authorization server. While there are not restrictions around which flows this extension can be used with, it will generally be used with user delegation flows.

### [1.1.](#) Notational Conventions

The key words 'MUST', 'MUST NOT', 'REQUIRED', 'SHALL', 'SHALL NOT', 'SHOULD', 'SHOULD NOT', 'RECOMMENDED', 'MAY', and 'OPTIONAL' in this document are to be interpreted as described in [[RFC2119](#)].

## [2.](#) Language Preference

A client MAY provide the authorization server with information about an end-user's language preference. The client includes the following URI query parameter when constructing its request to the end-user authorization endpoint URI:

language

OPTIONAL. The user's preferred languages represented as a comma-separated list of [[RFC5646](#)] basic language ranges in descending priority order. For example, the value "fr-CA,fr-FR,en-CA" represents the preference for French spoken in Canada, French spoken in France, followed by English spoken in Canada.

This parameter SHOULD take precedence over both the HTTP Accept-Language header sent by the end-user's browser and any language preference inferred via IP address geolocation.

## [3.](#) Display

OAuth 2.0 user delegation flows are designed to work across a wide

variety of screen sizes, device types, and contexts. The client MAY request a specific form factor of dialog from the authorization server based on what they feel is most appropriate. The client includes the following URI query parameter when constructing its request to the end-user authorization endpoint URI:

display

OPTIONAL. The most appropriate form factor for the authorization dialog. If the parameter is included in the request, the value MUST be set to one of the following:

page

A full-page authorization screen (the default).

popup

A compact dialog optimized for modern web browser popup windows.

touch

A mobile-optimized dialog designed for modern smartphones such as Android and iPhone.

wap

An extremely compact dialog optimized for older mobile web browsers.

#### [4.](#) Security Considerations

No additional considerations beyond those described within the OAuth 2.0 Protocol.

#### [5.](#) Normative References

[I-D.ietf.oauth-v2]

Hammer-Lahav, E., Ed., Recordon, D., and D. Hardt, "The OAuth 2.0 Protocol", Jun 2010.

[RFC2119] Bradner, B., "Key words for use in RFCs to Indicate Requirement Levels", [BCP 14](#), [RFC 2119](#).

[RFC5646] Phillips, A., Ed. and M. Davis, Ed., "Tags for Identifying Languages", [BCP 47](#), [RFC 5646](#).

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