OPERA software

Opera Platform™
Enabling Web applications on mobile phones

- Create and run advanced Web applications on mobile phones
- Make mobile clients for existing Web applications
- Reduce application costs, coding complexity and time-to-market

Using state-of-the-art Web technologies, Opera Platform™ is a powerful and flexible application framework for mobile phones. With Opera Platform™ you can quickly and affordably create advanced mobile Web applications that give users instant access to online resources such as news headlines, weather forecasts, e-mails, sports results, auction bidding status, or bus schedules.

Opera Platform™ enables you to integrate the phone's local applications with online content ranging from regular Web sites to advanced business support systems. Examples can include integrating the phone's calendar, contact list and SMS/e-mail with your company's CRM software or reporting systems.

Creating advanced applications using open standards Web technologies is significantly easier and more-cost-efficient than using traditional technologies. Because Opera Platform™ is based on Web technologies, any Web developer can quickly and affordably create new and advanced mobile applications with a remarkably short time-to-market. Existing Web applications can easily be adapted to fit the mobile phone.

AJAX gone mobile

"Asynchronous JavaScript and XML", or in short AJAX, has impacted the Internet by enabling people to develop dynamic web applications that provides a rich user experience. While Web applications are increasingly popular for desktop computers, this technology is even more appropriate for mobile phones, where slower network capacity and limited input methods have created barriers for user adoption.

By storing an AJAX application on the mobile phone and allowing XML-communication with a Web-server, the traditional bandwidth constraints become less of an issue. This also enables transparent updating of information pushed to the mobile phone.

Opera Platform™ Software Development Kit (SDK)

The Opera Platform™ SDK is a framework for developing and running Web based applications on mobile phones. It consists of three parts: the Application Player, the Application Framework and Applications.
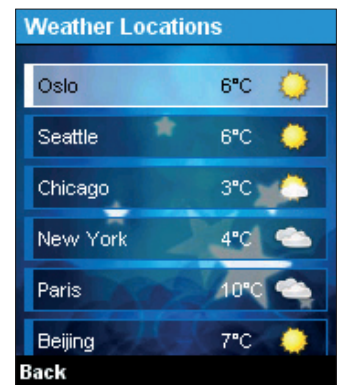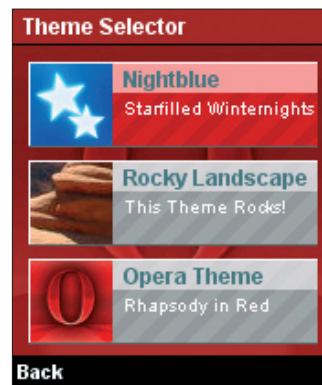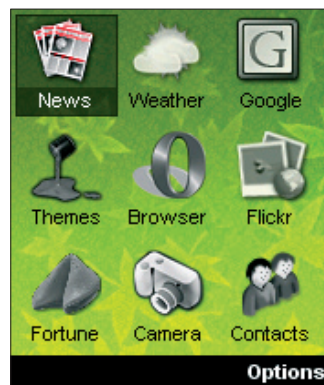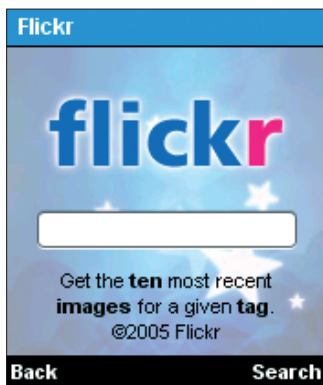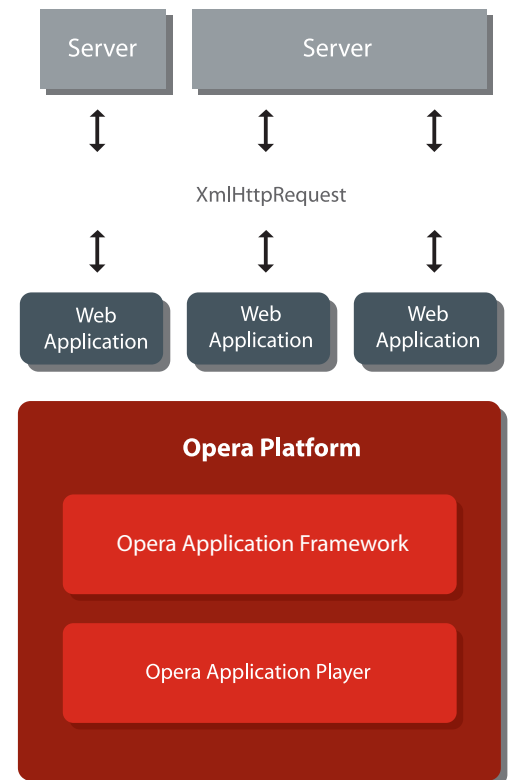
The Application Player

The Application Player is an extended version of the Opera browser, which is currently deployed on millions of mobile phones and personal computers. The Application Player enables Web applications to utilize native functionality in the phone such as messaging, calendar, battery and signal status.

The Application Framework

The Application Framework runs on top of the Application Player and provides interaction between installed Web applications. The Application Framework also offers developers predefined UI elements, such as menu systems and dialog boxes, to ease enable fast and easy application development.

Applications

Opera Platform applications are true Web applications created in established, open standard technologies such as HTML, CSS and JavaScript. They have access to the phone's functionality through the Opera Platform DOM interface (provided by the Application Player) and can communicate with servers using XMLHttpRequest.

Server	Server

XmlHttpRequest

Web Application	Web Application	Web Application

Opera Platform

Opera Application Framework

Opera Application Player

Supported platforms: Symbian Series 60, Windows Mobile 2003 Second Edition, Smartphone

Read more on our web pages: http://www.opera.com/platform/

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