# SMART Ink Aware Development Kit for Adobe Flash

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## ABSTRACT

Adobe® Flash® is a development tool that was originally designed for creating Web-based content and interactive graphics content. Over time Flash has evolved into a general purpose development platform that is used to create the sophisticated functionality normally associated with desktop applications. The SMART Ink Aware Development Kit for Adobe Flash extends Flash to include pen and ink input capabilities that are commonly associated with pen-based computing devices such as tablets, PDAs, and interactive whiteboards.

The kit adds pen computing functionality such as ink collection, writing recognition and ink aware user interface components to the Flash developer's toolkit. We will demonstrate the development kit and how it can be used to build ink aware Flash applications for use on a SMART Board™ interactive whiteboard.

**Keywords:** Ink aware, pen input, writing recognition, interactive display, user interface components.

## INTRODUCTION

Our development kit includes a number of components for building, publishing, debugging and deploying ink aware Flash applications. Applications developed with the kit can range from simple Flash content such as interactive animated graphics content to fully featured Flash applications such as a corporate mash-up. The kit can be used to create new applications dedicated to ink input or to update existing application to include ink aware user interface components.

### Inking Capabilities

We have included a number of pen and ink capabilities in the kit to make construction of ink aware applications easier. Provided inking capabilities include pen input, ink collection, writing recognition, ink persistence and ink smoothing. These capabilities provide the basic building blocks for creating ink aware applications.

### Pen and Ink Aware User Interface Components

We have also included a number of pen aware and ink aware user interface components for building Flash applications

that accept ink input. Ink aware user interface components are equivalent to standard desktop components with additional ink input and ink processing capabilities.
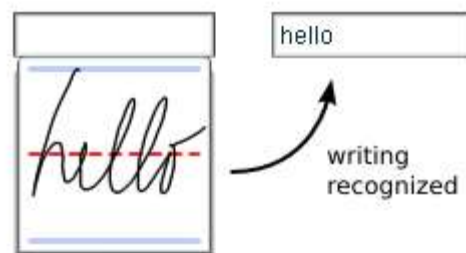


Figure 1. Ink aware user interface component

Ink aware input components accept written input and then either recognize it to produce text or leave it as is and persist the writing for later recall.

### Programming Metaphor

The development kit integrates into the Flash development environment and provides an API that is similar to existing Flash libraries. Flash developers will find the API easy to understand because it is closely aligned with the existing Flash programming metaphor. Flash developers can quickly learn to use the API and can immediately add pen and ink functionality to their Flash content.

## AVAILABILITY

The kit is available for evaluation purposes. Please contact the author for more information.

## ABOUT THE PRESENTER

Cory Sanoy is a senior software developer at SMART Technologies Inc. and product lead for the Ink Aware Development Kit for Adobe Flash.