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Apache Commons Email

Simplifying the Java Mail API

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Leading the Wave
of Open Source



History

- Originally written for Apache Turbine
- Extracted from Turbine in 2001
- Release of version 1.0 in 2005
- Currently working on version 1.3



Motivation

- No more MimeBodyPart, Multipart and DataHandlers
- Simplify creation of emails
 - Adding attachments
 - Creating HTML emails
 - Inline images for HTML emails

The Simple Email

```
Email email = new SimpleEmail();
email.setHostName("smtp.gmail.com");
email.setSmtpPort(587);
email.setTLS(true);
email.setAuthenticator(new DefaultAuthenticator("foo", "bar"));
email.setFrom("user@gmail.com");
email.setSubject("TestMail");
email.setMsg("This is a test mail ... :-)");
email.addTo("foo@bar.com");
email.send();
```



Using SimpleEmail



The Simple Email

```
Email email = new SimpleEmail();
email.setHostName("smtp.gmail.com");
email.setSmtpPort(587);
email.setTLS(true);
email.setAuthenticator(new DefaultAuthenticator("foo", "bar"));
email.setFrom("user@gmail.com");
email.setSubject("TestMail");
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email.send();
```



Mail Session Properties



The Simple Email

```
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email.setAuthenticator(new DefaultAuthenticator("foo", "bar"));
email.setSubject("TestMail");
email.setFrom("user@gmail.com");
email.addTo("foo@bar.com");
email.setMsg("This is a test mail ... :-)");
email.send();
```



MimeMessage content



The Simple Email

```
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email.setFrom("user@gmail.com");
email.setSubject("TestMail");
email.setMsg("This is a test mail ... :-)");
email.addTo("foo@bar.com");
email.send();
```



Sending the email



The Simple Email

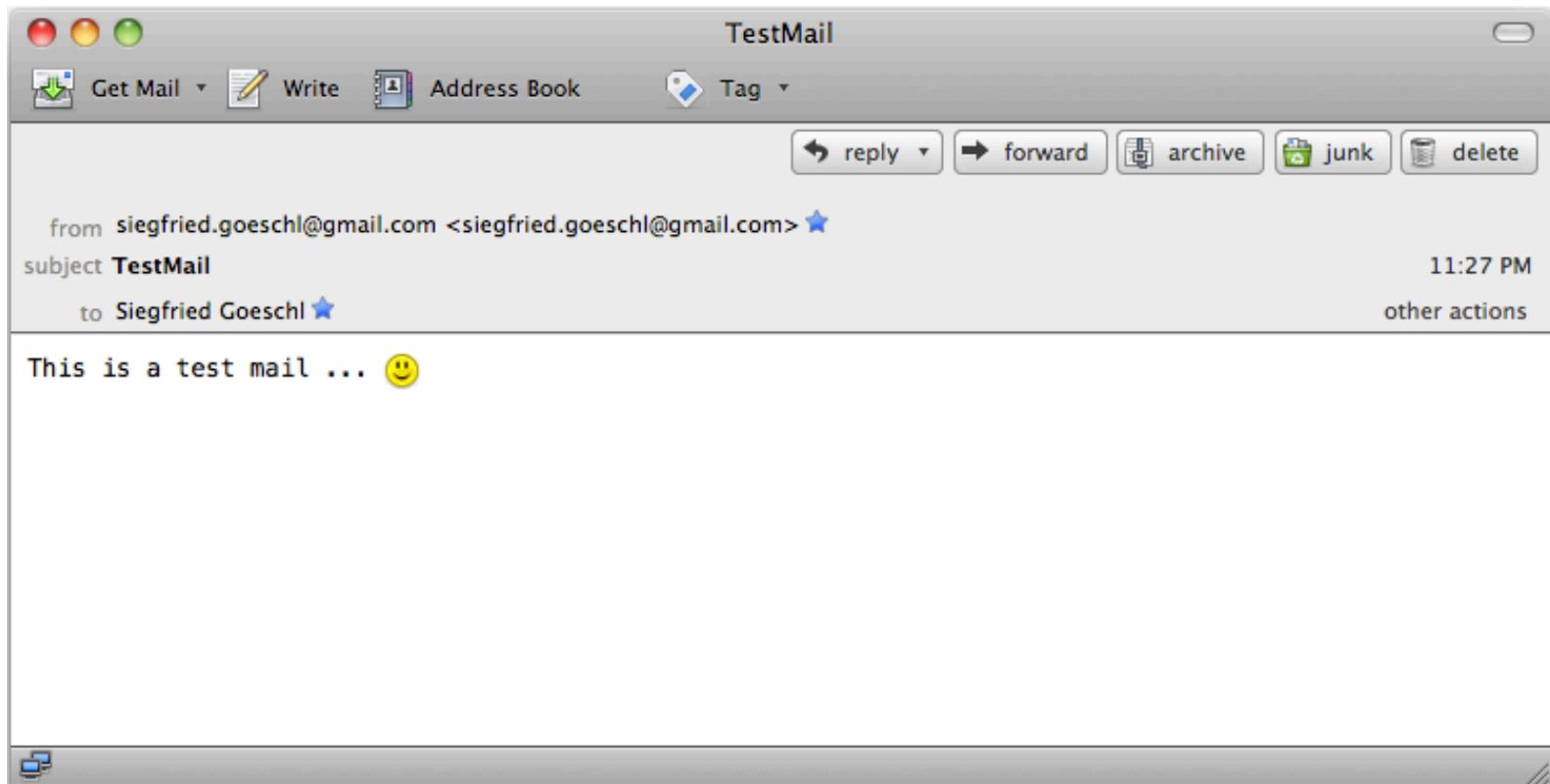
```
Email email = new SimpleEmail();
email.setHostName("smtp.gmail.com");
email.setSmtpPort(587);
email.setTLS(true);
email.setAuthenticator(new DefaultAuthenticator("foo", "bar"));
email.setFrom("user@gmail.com");
email.setSubject("TestMail");
email.setMsg("This is a test mail ... :-)");
email.addTo("foo@bar.com");
email.send();
```



Works with Google Mail



The Simple Email





The MultiPart Email

SimpleEmail plus attachments

Email With Attachments

```
EmailAttachment attachment = new EmailAttachment();
attachment.setPath("mypictures/john.jpg");
attachment.setDisposition(EmailAttachment.ATTACHMENT);
attachment.setDescription("Picture of John");
attachment.setName("John");

MultiPartEmail email = new MultiPartEmail();
...
email.attach(attachment);

email.send();
```



The HTML Email

- Plain Text & HTML content
- Attachments
- Supports inline images
 - Image is embedded into the email
 - Requires no internet access when displaying the email
- HTML is not rendered consistently across major email clients



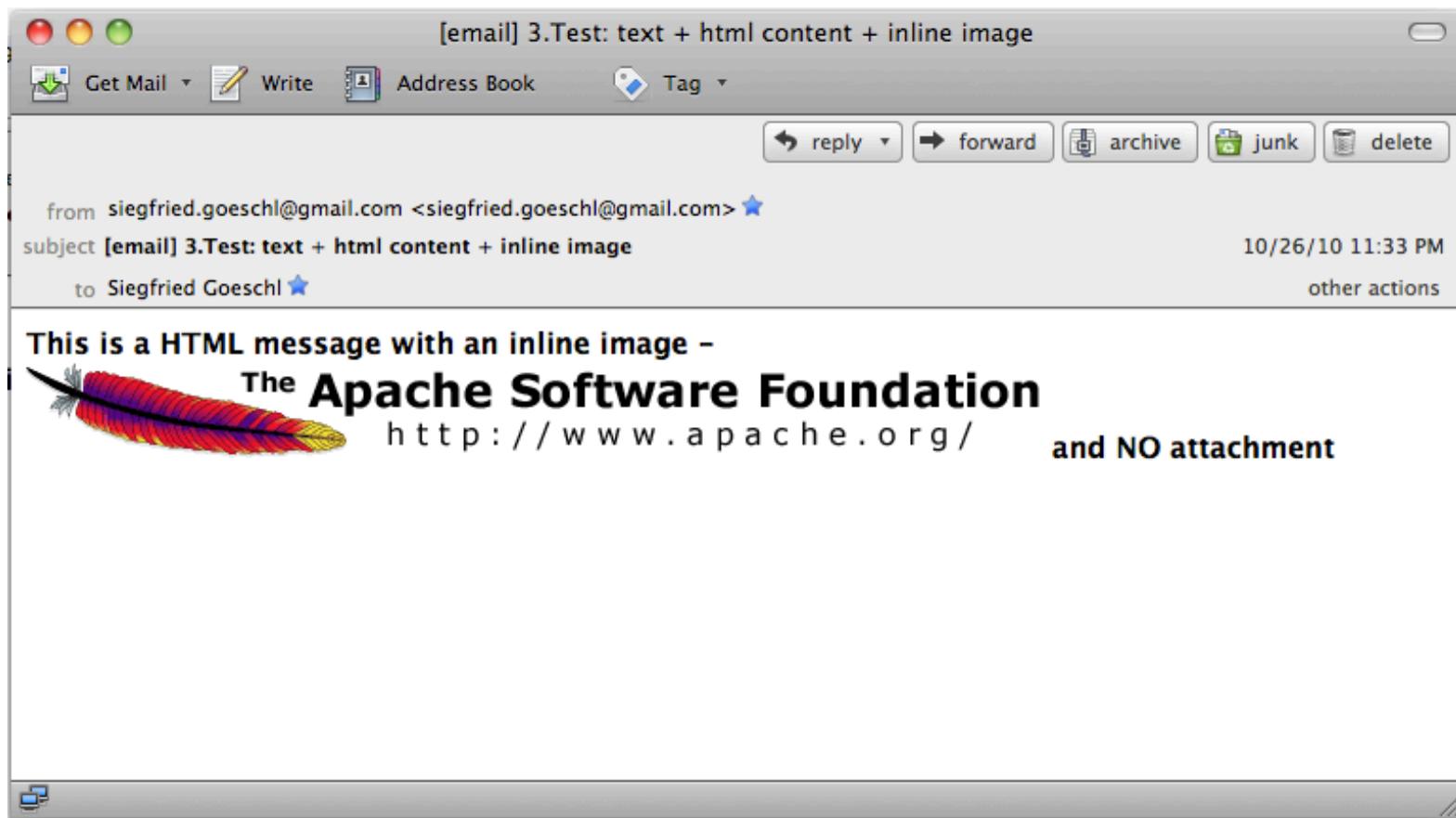
The HTML Email

```
HtmlEmail email = new HtmlEmail();  
...  
  
URL url = new URL("http://a.o/images/asf_logo_wide.gif");  
String cid = email.embed(url, "Apache logo");  
  
email.setHtmlMsg("<html>This is a HTML message with an  
inline image - <img src=\"cid:"+cid+"\"> and NO attachment  
</html>");  
  
email.send();
```



Using an Inline Image

The HTML Email





The Image HTML Email (1)

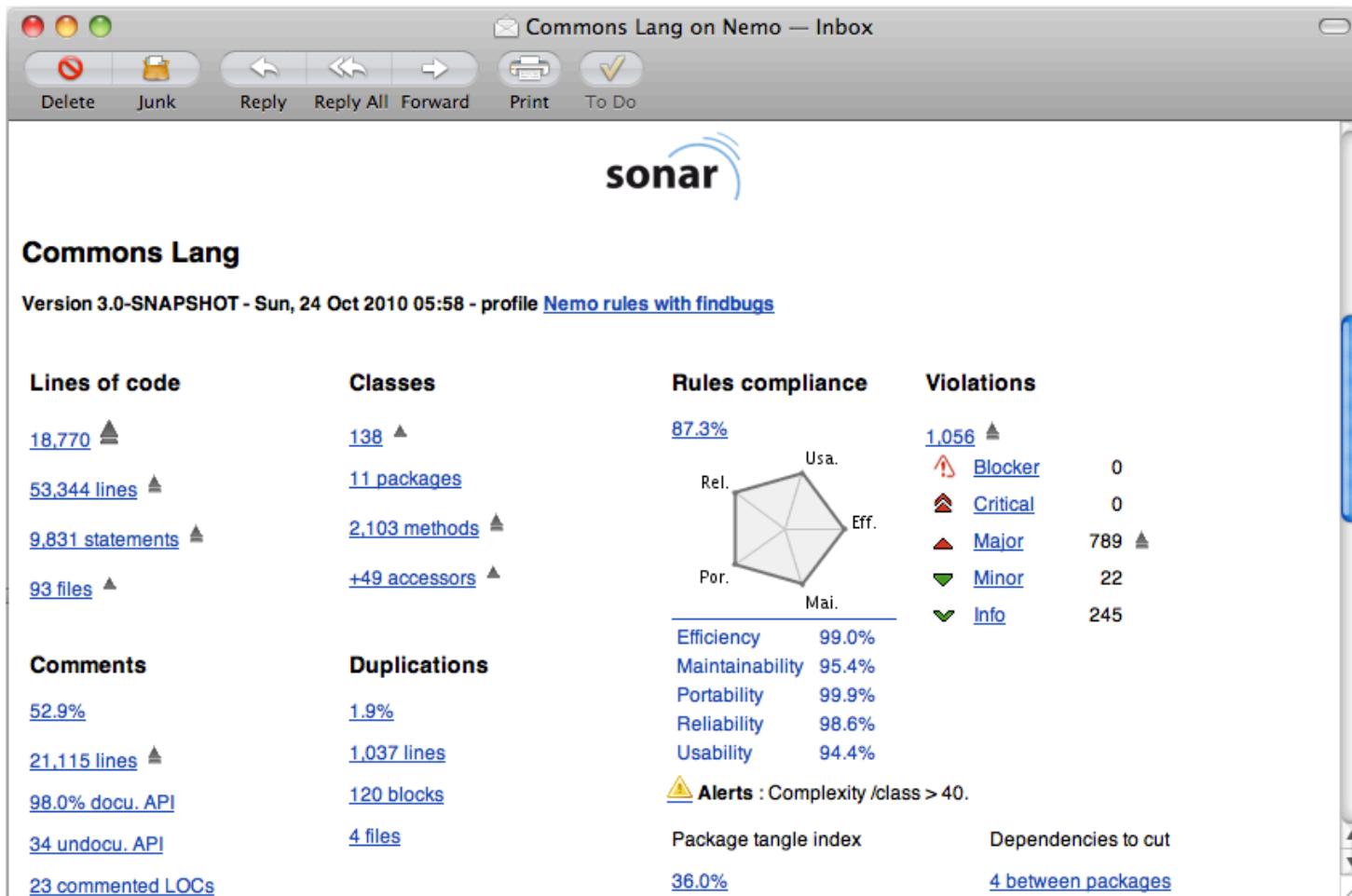
- Ships with release 1.3
- Resolves all image links to inline images automatically
- Turns a HTML page into an email

The Image HTML Email

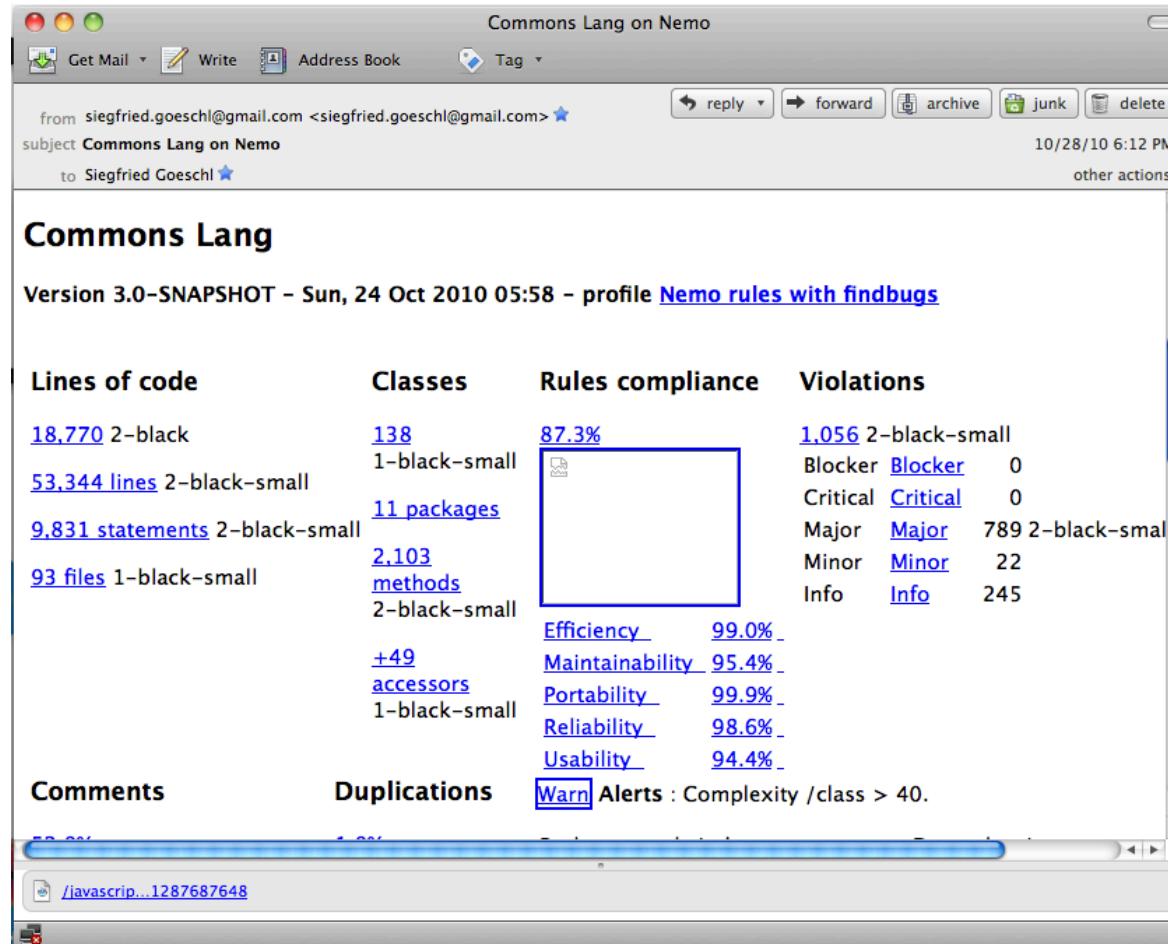
```
ImageHtmlEmail email = new ImageHtmlEmail();  
...  
URL url = new URL(  
    http://nemo.sonarsource.org/project/index/269309?page\_id=2  
);  
  
email.setHtmlMsg(getFromUrl(url));  
  
email.send();
```



The Image HTML Email (3)



The Image HTML Email (4)



Thunderbird

Commons Email Kickstart

- Get the source code
- Update EmailConfiguration
 - Configures access to your SMTP server
- Run the EmailLiveTest
 - Will send a few test mails



Tips and Tricks

- How to get a Mail Session
 - Implicit creation by using `Email.setXXX()`
 - Explicitely using `Email.setMailSession()`
 - Can't be mixed and matched
- Internationalization
 - Use UTF-8 as charset
 - Non-ASCII attachment names work but violate MIME specification



Tips and Tricks

- Getting the underlying MimeMessage
 - Invoke Email.buildMimeMessage()
 - Asynchronous processing
 - SMIME signature
 - Batch sending of emails
- When sending emails does not work
 - Email.setDebug(true)





Conclusion

“When should I use commons-email?”

“Whenever you send an email!”



Resources

- <http://commons.apache.org/email/>
- <http://www.campaignmonitor.com/css/>
- <http://www.email-standards.org/>
- <http://articles.sitepoint.com/article/code-html-email-newsletters>