

**adaptTo()**

APACHE SLING & FRIENDS TECH MEETUP

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**Adaptive images in CQ5**

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# About the speakers

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Specialized on Adobe CQ and it's  
technology stack since 2003

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<http://argonauteng2.de>

argonauten\_G2

# Disallow scaling of websites

```
<metaname="viewport"  
  content="width=device-width, minimum-  
scale=1.0, maximum-scale=1.0, user-  
scalable=no" />
```

```
.vwm_image_full {  
    width: 100%;  
    background-size: 100%;  
    background-repeat: no-repeat;  
}
```

```

```

# Add additional CSS

```
private String generateDynamicCss(HtmlElement pParent, String pMediaRef) {  
    String cssname = "vwm_image_full" + DigestUtils.md5Hex(pMediaRef);  
    pParent.addContent(  
        new Style(getMobileMediaFormatHelper().buildMediaCSS(pMediaRef, cssname)));  
    return cssname;  
}
```

# Three Scales

```
public enum SCALE {

    /** Scale for highres opt-devices */
    SCALE1("@media all and (-webkit-min-device-pixel-ratio: 1.5)"),
    /** Scale for normal opt-devices */
    SCALE2("@media all and (min-width: 320px)"),
    /** Scale for opt-fallback */
    SCALE3();

    private final String mCssHeadline;

    private SCALE() {
        mCssHeadline = "";
    }

    private SCALE(String pCssHeadline) {
        mCssHeadline = pCssHeadline;
    }

    public String getCssHeadline() {
        return mCssHeadline;
    }
}
```

# Add additional CSS

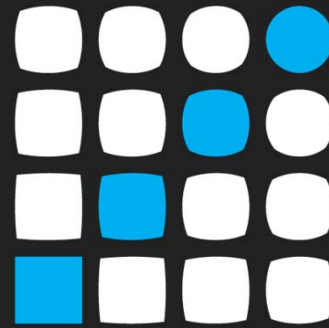
```
public String buildImageCss(String pMediaRef, String pCssName) {
    StringBuilder sb = new StringBuilder();
    buildMediaQueryCSS(sb, pCssName, null, pMediaRef);
    buildMediaQueryCSS(sb, pCssName, SCALE.SCALE2, pMediaRef);
    buildMediaQueryCSS(sb, pCssName, SCALE.SCALE1, pMediaRef);
    return sb.toString();
}

public void buildMediaQueryCSS(StringBuilder pStringBuilder, String pCssName, SCALE pScale, String pMediaURL) {
    if (pScale != null) {
        pStringBuilder.append(pScale.getCssHeadline());
        pStringBuilder.append(" {");
    }
    pStringBuilder.append(".");
    pStringBuilder.append(pCssName);
    pStringBuilder.append(" {");
    pStringBuilder.append("background-image : url(");
    pStringBuilder.append(pMediaURL);
    pStringBuilder.append(");}");
    if (pScale != null) {
        pStringBuilder.append("}");
    }
}
}
```



# The output

```
.vwm_4990ec125abc0ef25be7c0e1a166a773 {  
    background-image : url(/img/low-res.jpg);  
}  
@media all and (min-width: 320px) {  
    .vwm_4990ec125abc0ef25be7c0e1a166a773 {  
        background-image : url(/img/medium-res.jpg);  
    }  
}  
@media all and (-webkit-min-device-pixel-ratio: 1.5) {  
    .vwm_4990ec125abc0ef25be7c0e1a166a773 {  
        background-image : url(/img/hi-res.jpg);  
    }  
}
```



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**Thank you for your attention!**

**Any questions?**